

PowerSolutions

FOR INDUSTRIAL AND MEDICAL SYSTEMS



POWER SUPPLIES | UPS



2021
WWW.BICKER.DE

**SOLUTIONS FOR
PROFESSIONALS
MADE BY BICKER**



OUR TEAM IS
HERE FOR YOU!

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BICKER ELEKTRONIK GMBH

POWER & UPS SOLUTIONS

INDUSTRIAL PC POWER SUPPLIES

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CERTIFIED
ISO 9001:2015
QUALITY MANAGEMENT SYSTEM

www.tuev-sued.de/ms-zert



DONAUWOERTH, GERMANY

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**POWER+BOARD
ONE-STOP SOLUTIONS**

SEE EXTRA CATALOGUE



VISIT OUR ONLINE SHOP!

EXTENSIVE STORAGE – FAST DELIVERY

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“
**YOUR
SOLUTION
IS ONLY ONE
CLICK AWAY!**

MARKUS BICKER | CEO



**PURCHASE
ON INVOICE**



ONE-STOP-SHOPPING

**24/7 EASY, QUICK,
CONVENIENT**

- ✓ Industrial PC Power Supplies
- ✓ Industrial Power Supplies
- ✓ Medical Power Supplies
- ✓ DC/DC Converters
- ✓ UPS Systems & Batteries
- ✓ Industrial Mainboards
- ✓ RAM & Flash Storage
- ✓ Expansion Modules
- ✓ Accessories



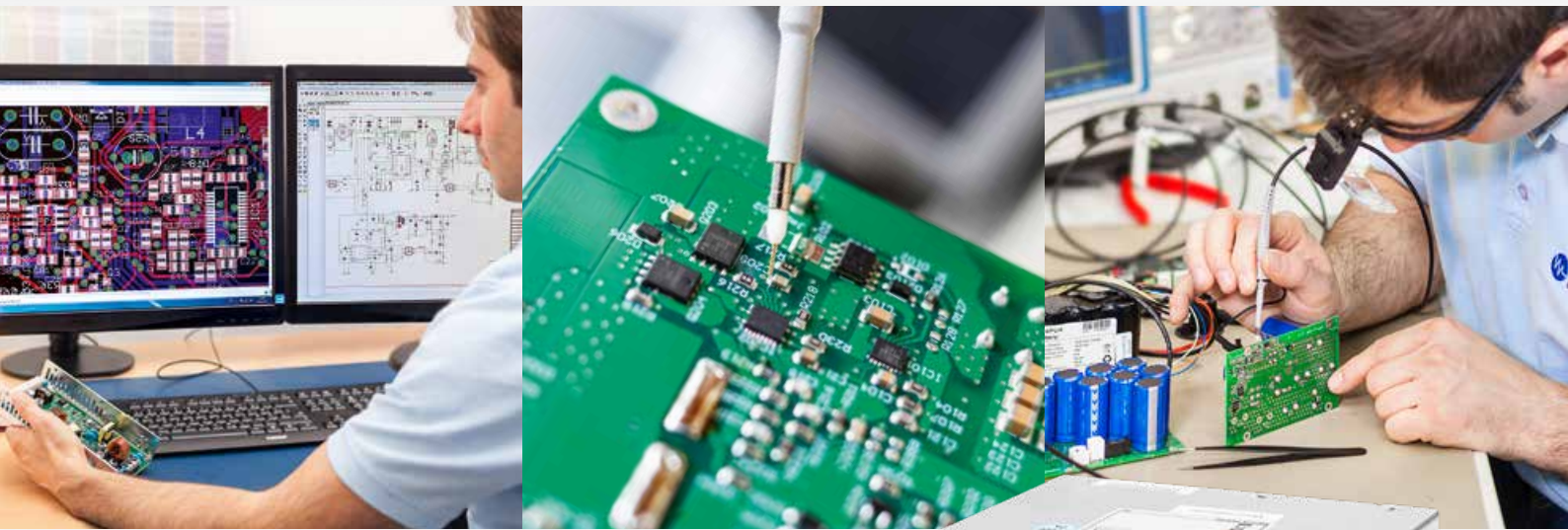
BENEFITS & FEATURES

- + Display stock availability (B2B)
- + Intelligent search functionality
- + Advanced filtering options
- + Individual request function
- + Personal wish list
- + Set desired delivery date
- + Access to order documents
- + Order status and history
- + Managing delivery and billing addresses
- + Newsletter management system

SAFETY & INNOVATION

SOLUTIONS FOR PROFESSIONALS

Break new ground! Rapid technological changes in the application environment, such as IIoT/Industry 4.0 and medical technology, call for continuous innovation. The personal consultation is the basis for each successful project. Thanks to our highly qualified team of technicians and engineers we are able to provide standard products and individually tailored solutions for your specific application. Benefit from our experience!



Bicker MHG2 Series Medical Power Supply

The powerful ATX PSU is equipped with a nickel-plated plug of type Stäubli S6/15 for the secure potential equalisation according to DIN 42801. The supplied computer system can be kept at the same potential with other components if necessary.

▶ PAGE 64



With PE plug
Stäubli S6/15



**SOLUTIONS FOR
PROFESSIONALS
MADE BY BICKER**



**Bicker UPSI Series
Modular UPS System**
with long-life energy packs.

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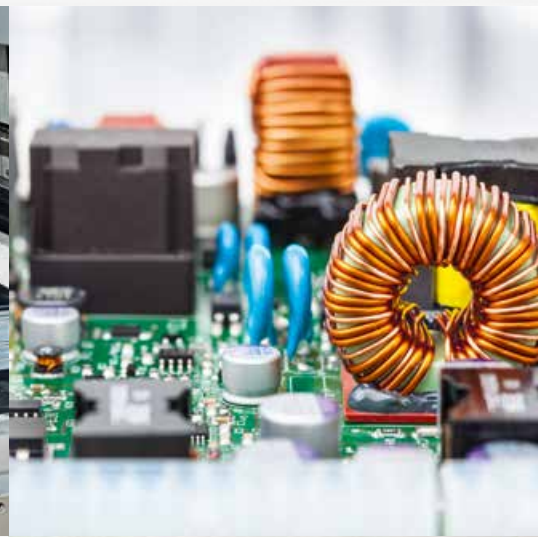
OUR ADDED VALUE SERVICES

- +** Over 25 years of experience
- +** Design-in advice on site
- +** In-house R&D department
- +** Tailor-made complete solutions
- +** International certifications
- +** Conception and project planning
- +** Hardware & software development
- +** PCB layout and optimization
- +** Development-related type testing
- +** Comprehensive test development

QUALITY & RELIABILITY

FOCUS ON CUSTOMER SATISFACTION

We keep our word! Since 1994 satisfaction of our customers worldwide has been the decisive factor for a sustainable positive development of our company. Optimal quality and dimensioning of each component in our power supply solutions is decisive for long-term and reliable operation of a supplied system. That is why we sharpen our awareness for details that make the difference – every day, for each project!



ISO 9001:2015
Quality Management System

www.tuev-sued.de/ms-zert

**SOLUTIONS FOR
PROFESSIONALS
MADE BY BICKER**



Bicker BEP-520C
Design Lifetime 12+ Years

The exclusive use of polymer capacitors is a novelty in this power supply segment. This ensures the extra long lifetime of the power supply in rugged and closed IPC systems. Polymer capacitors are much more robust in terms of electrical and thermal loads and are characterized by their high stability, reliability and longevity.

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OUR ADDED VALUE SERVICES

- | | |
|--|--|
|  High quality products |  Extensive storage facilities |
|  Individual special solutions |  Long-term available products |
|  Tested Power+Board bundles |  Fast and flexible delivery |
|  Certified quality management |  Reliable logistic partners |
|  Excellent service & support |  Serial number registration |

BEA-750H

2-IN-1 PSU SAVES SPACE, ENERGY AND COSTS



2-in-1 IPC PSU simultaneously supplies ATX mainboard and 24 V peripherals:

The combination ATX output plus additional 24 V DC / 7 A output simplifies a space-saving and EMC-optimized system design. Furthermore this 2-in-1 solution results in a significant cost reduction for IPC applications with 24 V DC peripherals.

- ✓ **Industrial PC power supply with additional 24 VDC output**
- ✓ **Robust design for 24/7 continuous operation**
- ✓ **Premium quality components**
- ✓ **Safety approvals including EN/UL 62368-1 / CCC**
- ✓ **80PLUS® Gold efficiency up to 91 %**
- ✓ **Low standby consumption <0.5 W**
- ✓ **Increased interference resistance**
- ✓ **Exactly regulated output voltages**
- ✓ **No minimum load required**
- ✓ **Wide temperature range -10...+70 °C**
- ✓ **Optimized thermal and airflow management**
- ✓ **Temperature controlled silent fan**
- ✓ **Long-term availability**
- ✓ **3 years warranty**



For further information and a detailed data sheet of the presented **BEA-750H** please visit our website or contact us directly. Take advantage of our on-site design-in consulting for your specific application.

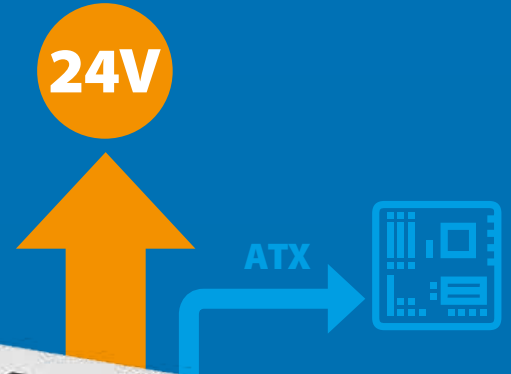
3 Years
★★★★★
Warranty



24V

POWERFUL 24V DC / 7 A OUTPUT

Additional 24VDC / 7 A output for supply of printers, displays, card readers, sensors, actuators or camera units.



SILENT & SAFE FAN

Permanent function monitoring of the double ball bearing fan with a separate tacho signal output. The speed of the silent fan is temperature controlled.



SAFETY BRACKET

A robust metal bracket secures the IEC 320 mains cable against accidental detaching or slipping-off.

JAPANESE BRAND +105 °C CAPACITORS

High quality electrolytic capacitors ensure longer service life and very high performance compared to cheaper versions.



AC INPUT

AC/DC | 60–860 Watt



	BEP-506H 60 Watt	BEP-510 120 Watt																																				
Key Features	<ul style="list-style-type: none"> ✓ 60 Watt continuous fanless power! ✓ Excellent voltage regulation ✓ Very compact dimensions ✓ No minimum load required ✓ Powerful +5V_{sb} rail (4 A) 	<ul style="list-style-type: none"> ✓ 100 Watt continuous fanless power! ✓ Operating temperature up to +70 °C ✓ Very robust design and construction ✓ High reliability due to quality components ✓ No minimum load required 																																				
Type	AC/DC, 1 U / U-bracket	AC/DC, 1 U / U-bracket																																				
Input voltage	90...264 VAC	90...264 VAC, active PFC																																				
Efficiency	App. 80% (115 VAC)	≥80% (at max load and 115 VAC)																																				
Temperature range	0...+70 °C	-10...+70 °C																																				
Safety / EMC	EN/UL62368-1, CE, CCC	EN/UL62368-1, CE																																				
Dimension (W x D x H)	55.0 x 126.0 x 39.0 mm	83.8 x 165.0 x 40.0 mm																																				
3-Years-Warranty	✓	✓																																				
Output voltages	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>6.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>7.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>5.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.3 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>4.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	6.0 A	+5 V	0.0 A	7.0 A	+12 V	0.0 A	5.0 A	-12 V	0.0 A	0.3 A	+5 V _{sb}	0.0 A	4.0 A	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>12.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>14.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>8.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.5 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>1.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	12.0 A	+5 V	0.0 A	14.0 A	+12 V	0.0 A	8.0 A	-12 V	0.0 A	0.5 A	+5 V _{sb}	0.0 A	1.5 A
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- Industrial Automation
- Gaming
- Embedded Systems
- Server and Storage
- Vending and POI/POS



➤ VERTICAL MARKETS



➤	BEP-520H 200 Watt	BEP-530H 300 Watt																																							
Key Features	<ul style="list-style-type: none"> ✔ 150 Watt continuous fanless power! ✔ Excellent voltage regulation ✔ Temperature range -10...+70 °C ✔ EN/UL62368-1 certified ✔ No minimum load required ✔ Powerful +5V_{sb} (3 A) 	<ul style="list-style-type: none"> ✔ 250 Watt continuous fanless power! ✔ High efficiency up to 91% ✔ International approvals UL508 / TÜV EN62368-1 ✔ Excellent voltage regulation ✔ No minimum load required ✔ Powerful +5V_{sb} (3 A) 																																							
Type	AC/DC, 1 U / U-bracket	AC/DC, 1 U / U-bracket																																							
Input voltage	90...264 V AC, active PFC	85...264 V AC, active PFC																																							
Efficiency	≥83% (at full load and 230 VAC)	App. 91% (at full load and 230 VAC)																																							
Temperature range	-10...+70 °C	-10...+70 °C																																							
Safety / EMC	EN/UL62368-1, CCC, CE, EN55022 Class A (with filter PSZ-1019: class B)	EN/UL62368-1, UL508, CE, EN61000-4-5 (SURGE): L-N ±2 kV, L-PE ±4 kV (Crit. B)																																							
Dimension (W x D x H)	100.0 x 186.0 x 39.5 mm	97.0 x 200.0 x 40.0 mm																																							
3-Years-Warranty	✔	✔																																							
Output voltages	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">min</th> <th style="text-align: center;">max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">12.0 A</td> </tr> <tr> <td>+5 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">14.0 A</td> </tr> <tr> <td>+12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">15.5 A</td> </tr> <tr> <td>-12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">0.5 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	12.0 A	+5 V	0.0 A	14.0 A	+12 V	0.0 A	15.5 A	-12 V	0.0 A	0.5 A	+5 V _{sb}	0.0 A	3.0 A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">min</th> <th style="text-align: center;">max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">12.0 A</td> </tr> <tr> <td>+5 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">12.0 A</td> </tr> <tr> <td>+12 V₁</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">15.0 A</td> </tr> <tr> <td>+12 V₂</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">15.0 A</td> </tr> <tr> <td>-12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">0.5 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	12.0 A	+5 V	0.0 A	12.0 A	+12 V ₁	0.0 A	15.0 A	+12 V ₂	0.0 A	15.0 A	-12 V	0.0 A	0.5 A	+5 V _{sb}	0.0 A	3.0 A
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AC INPUT

AC/DC | 60–860 Watt



	BEH-531H 300 Watt	BEA-630H 300 Watt																																										
Key Features	<ul style="list-style-type: none"> ✓ High efficiency >90% ✓ No minimum load required ✓ Wide temperature range -10...+60 °C ✓ Low noise due to temperature regulated fan ✓ Designed for continuous operation 24/7 ✓ ErP Lot 6 2013 ready 	<ul style="list-style-type: none"> ✓ High efficiency >80 % ✓ No minimum load required ✓ Additional -5V DC output ✓ Wide temperature range -10...+70 °C ✓ Designed for continuous operation 24/7 																																										
Type	AC/DC, FlexATX	AC/DC, ATX																																										
Input voltage	90...264 V AC, active PFC	90...264 V AC, active PFC																																										
Efficiency	>90%	>80%																																										
Temperature range	-10...+60 °C	-10...+70 °C																																										
Safety / EMC	TÜV, UL, IEC/EN/UL62368-1, CE, EN55032	IEC/EN/UL62368-1, TÜV, UL, CE, EN55032																																										
Dimension (W x D x H)	81.5 x 150.0 x 40.5 mm	150.0 x 140.0 x 86.0 mm																																										
3-Years-Warranty	✓	✓																																										
Output voltages	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>12.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>14.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.3 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	12.0 A	+5 V	0.0 A	14.0 A	+12 V	0.0 A	25.0 A	-12 V	0.0 A	0.3 A	+5 V _{sb}	0.0 A	3.0 A	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>19.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>16.0 A</td> </tr> <tr> <td>+12 V₁</td> <td>0.0 A</td> <td>17.0 A</td> </tr> <tr> <td>+12 V₂</td> <td>0.0 A</td> <td>17.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.5 A</td> </tr> <tr> <td>-5 V</td> <td>0.0 A</td> <td>0.1 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	19.0 A	+5 V	0.0 A	16.0 A	+12 V ₁	0.0 A	17.0 A	+12 V ₂	0.0 A	17.0 A	-12 V	0.0 A	0.5 A	-5 V	0.0 A	0.1 A	+5 V _{sb}	0.0 A	3.0 A
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- Industrial Automation
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- Server and Storage
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➤ VERTICAL MARKETS



➤	BEA-540H 400 Watt	BEA-550K 500 Watt																																							
Key Features	<ul style="list-style-type: none"> ✔ Efficiency up to 85 % ✔ Increased interference resistance ✔ Designed for continuous operation 24/7 ✔ Maximum reliability due to high quality components ✔ No minimum load required ✔ International safety approvals 	<ul style="list-style-type: none"> ✔ High efficiency up to 92.5 % ✔ Designed for continuous operation 24/7 ✔ No minimum load required ✔ ErP Lot 6 2013 ready ✔ Temperature controlled silence fan ✔ Increased interference resistance 																																							
Type	AC/DC, ATX	AC/DC, ATX																																							
Input voltage	90...264 V AC	90...264 V AC, active PFC																																							
Efficiency	80...85 %	92.5 % (230 V AC)																																							
Temperature range	0...+70 °C	-10...+70 °C																																							
Safety / EMC	EN/UL62368-1, TÜV, UL, CCC, CE, EN61000-6-2, EN61000-6-4	EN/UL62368-1, CCC, CE, EN61000-6-2, EN61000-6-4																																							
Dimension (W x D x H)	150.0 x 140.0 x 86.0 mm	150.0 x 140.0 x 86.0 mm																																							
3-Years-Warranty	✔	✔																																							
Output voltages	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>20.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>20.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>30.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	20.0 A	+5 V	0.0 A	20.0 A	+12 V	0.0 A	30.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.5 A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>24.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>20.0 A</td> </tr> <tr> <td>+12 V₁</td> <td>0.0 A</td> <td>18.0 A</td> </tr> <tr> <td>+12 V₂</td> <td>0.0 A</td> <td>18.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.5 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	24.0 A	+5 V	0.0 A	20.0 A	+12 V ₁	0.0 A	18.0 A	+12 V ₂	0.0 A	18.0 A	-12 V	0.0 A	0.5 A	+5 V _{sb}	0.0 A	3.0 A
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AC INPUT

AC/DC | 60–860 Watt



	BEA-750H 500 Watt	BEA-550H 500 Watt																																													
Key Features	<ul style="list-style-type: none"> ✓ Additional +24 VDC output ✓ Increased interference resistance ✓ Designed for continuous operation 24/7 ✓ No minimum load required ✓ ErP Lot 6 2013 ready ✓ Temperature controlled silence fan 	<ul style="list-style-type: none"> ✓ Efficiency up to 85 % ✓ Increased interference resistance ✓ Designed for continuous operation 24/7 ✓ Maximum reliability due to high quality components ✓ No minimum load required ✓ International safety approvals 																																													
Type	AC/DC, ATX	AC/DC, ATX																																													
Input voltage	90...264 V AC, active PFC	90...264 V AC																																													
Efficiency	91 % (at 230 V AC)	81...85 % (at 115 V AC)																																													
Temperature range	-10...+70 °C	0...+70 °C																																													
Safety / EMC	EN/UL62368-1, CCC, CE	EN/UL62368-1, TÜV, UL, CCC, CE, EN61000-6-2, EN61000-6-4																																													
Dimension (W x D x H)	150.0 x 140.0 x 86.0 mm	150.0 x 140.0 x 86.0 mm																																													
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- Industrial Automation
- Gaming
- Embedded Systems
- Server and Storage
- Vending and POI/POS



➤ VERTICAL MARKETS



➤	BEA-560H 600 Watt	BEA-576H 760 Watt																																				
Key Features	<ul style="list-style-type: none"> ✔ Efficiency up to 86 % ✔ Increased interference resistance ✔ Designed for continuous operation 24/7 ✔ Maximum reliability due to high quality components ✔ No minimum load required ✔ International safety approvals 	<ul style="list-style-type: none"> ✔ Efficiency up to 86 % ✔ Excellent regulation ✔ Designed for continuous operation 24/7 ✔ High reliability due to quality components ✔ No minimum load required ✔ Safety clip prevents accidental disconnection of mains plug 																																				
Type	AC/DC, ATX	AC/DC, ATX Large																																				
Input voltage	90...264 V AC	90...264 V AC																																				
Efficiency	83...86 % (115 V AC)	83...86 % (115 V AC)																																				
Temperature range	0...+70 °C	0...+70 °C / startable from -25 °C																																				
Safety / EMC	EN/UL62368-1, TÜV, UL, CCC, CE, EN61000-6-2, EN61000-6-4	EN/UL62368-1, TÜV, UL, CCC, CE, EN61000-6-2, EN61000-6-4																																				
Dimension (W x D x H)	150.0 x 140.0 x 86.0 mm	150.0 x 160.0 x 86.0 mm																																				
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AC INPUT

AC/DC | 60–860 Watt



>	BEA-586H 860 Watt		
Key Features	<ul style="list-style-type: none"> ✓ Efficiency up to 86 % ✓ Excellent regulation ✓ Designed for continuous operation 24/7 ✓ High reliability due to quality components ✓ No minimum load required ✓ Safety clip prevents accidental disconnection of mains plug 		
Type	AC/DC, ATX Large		
Input voltage	90...264 V AC		
Efficiency	84...86% (115 V AC)		
Temperature range	0...+70°C / startable from -25°C		
Safety / EMC	EN/UL62368-1, CE, CCC, EN61000-6-2, EN61000-6-4		
Dimension (W x D x H)	150.0 x 160.0 x 86.0 mm		
3-Years-Warranty	✓		
Output voltages		min	max
	+3.3 V	0.0 A	25.0 A
	+5 V	0.0 A	25.0 A
	+12 V	0.0 A	60.0 A
	-12 V	0.0 A	0.8 A
	+5 V _{sb}	0.0 A	3.5 A

+

ACCESSORIES

For your industrial PC PSUs we will be glad to supply appropriate accessories such as mounting screws, set of safety clips, ATX extensions, adapters and much more.

To obtain an overall view of our portfolio please visit our website www.bicker.de.



INDUSTRIAL PC POWER SUPPLIES

- Industrial Automation
- Gaming
- Embedded Systems
- Server and Storage
- Vending and POI/POS



➤	BEAR-550H 500 Watt REDUNDANT	BEAR-560H 600 Watt REDUNDANT																																				
Key Features	<ul style="list-style-type: none"> ✔ Designed for server and storage systems ✔ Extended temperature range -20...+70 °C ✔ Silent due to regulated fan ✔ 2 power inputs ✔ No minimum load required ✔ Exchanging power rack during operation ensures high system availability 	<ul style="list-style-type: none"> ✔ Designed for server and storage systems ✔ Extended temperature range -20...+70 °C ✔ Silent due to regulated fan ✔ 2 power inputs ✔ No minimum load required ✔ Exchanging power rack during operation ensures high system availability 																																				
Type	AC/DC, ATX, redundant	AC/DC, ATX, redundant																																				
Input voltage	90...264 V AC, active PFC	90...264 V AC, active PFC																																				
Efficiency	80...86%	80...87%																																				
Temperature range	-20...+70 °C	-20...+70 °C																																				
Safety / EMC	EN/UL62368-1, CE	EN/UL62368-1, CE																																				
Dimension (W x D x H)	150.0 x 185.0 x 86.0 mm	150.0 x 185.0 x 86.0 mm																																				
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BEP-520C

IPC-PSU WITH DESIGN LIFETIME 12+YEARS

The **Industrial PC Power Supply BEP-520C with DC input** is equipped exclusively with high-quality **polymer capacitors** and supplies reliably enclosed and fanless rugged computer systems. Particularly under operating conditions with extreme temperature fluctuations, vibration and shock. Benefit from these convincing advantages:

- ✓ **Fanless 200 Watt ATX Power Supply**
- ✓ **16...32 V DC wide range input**
- ✓ **Equipped with high-quality polymer capacitors**
- ✓ **Design lifetime 12+ Years**
- ✓ **Galvanically insulated (high insulation voltage)**
- ✓ **Constant low output ripple voltages**
- ✓ **Industrial temperature range of -20...+70 °C**
- ✓ **High efficiency > 90 % typ**
- ✓ **Improved contact cooling design**
- ✓ **No minimum load required**
- ✓ **Cable management system**
- ✓ **Low standby consumption <0.3 W**
- ✓ **Reliable 24/7 continuous operation**
- ✓ **Long-term availability**
- ✓ **3 years warranty**



The **robust and highly durable BEP-520C** convinces electrically and mechanically across the board! For further information and data sheets please visit our website or contact us directly.

3 Years
★★★★★
Warranty

GALVANICALLY INSULATED

High insulation voltage Input/Output 3000 V AC

POLYMER CAPACITORS

for a particularly long lifetime under extreme conditions of use

OPTIMAL HEAT DISSIPATION

by thermal casing connection

DC INPUT 16-32 V

Wide range input with screw terminal

CABLE MANAGEMENT SYSTEM

Flexible use of customer-specific harness

NO MINIMUM LOAD REQUIRED

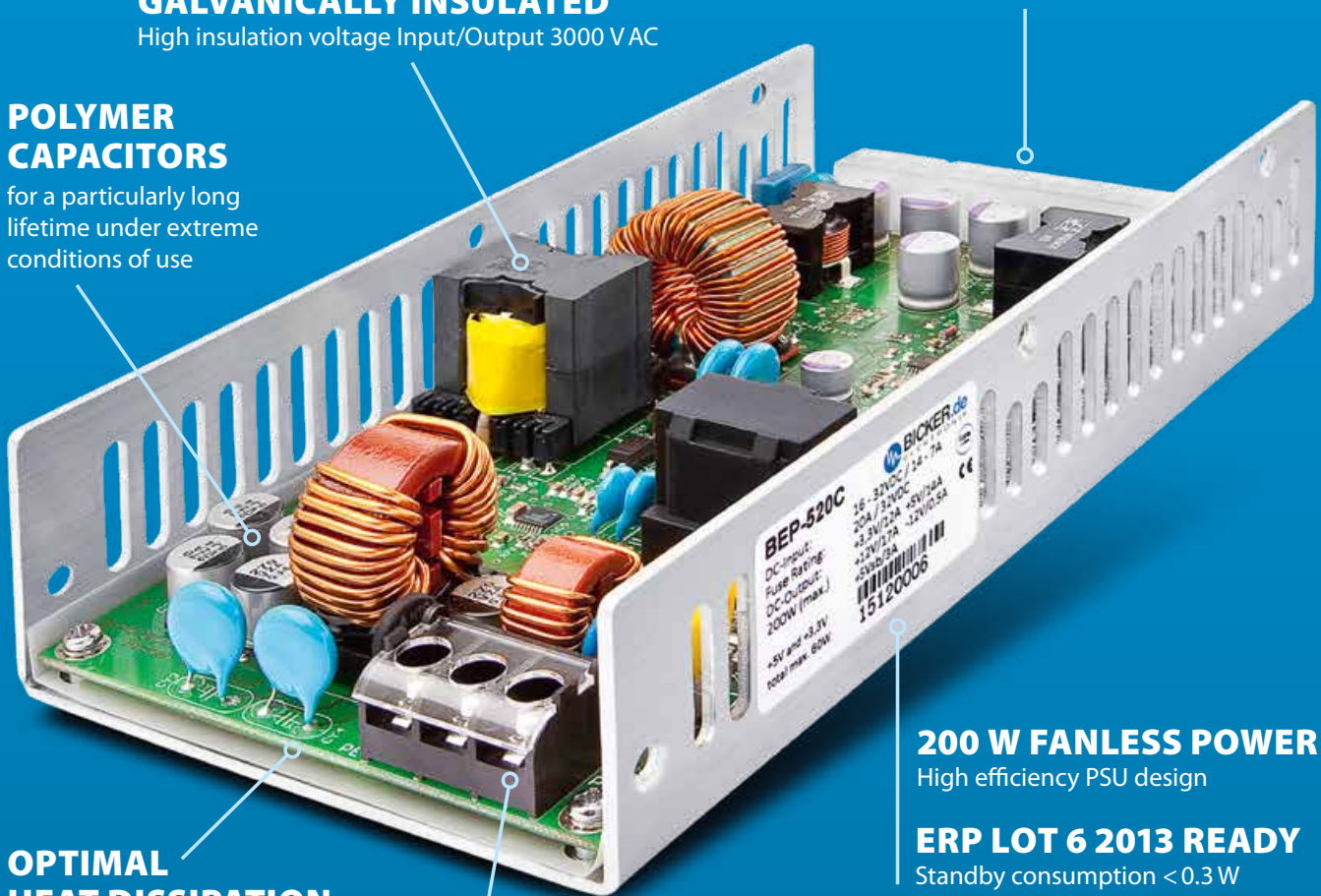
Ensure reliable and safe operation of the latest mainboards and processor technology.

200 W FANLESS POWER

High efficiency PSU design

ERP LOT 6 2013 READY

Standby consumption < 0.3 W



100% POLYMER CAPACITORS
The exclusive use of polymer capacitors instead of electrolytic capacitors requires a lot of know-how in the power supply development, however, this is a prerequisite for a particularly long power supply lifetime. Polymer capacitors are much more robust in terms of electrical and thermal loads and are distinguished by their high stability, reliability and longevity.



DC INPUT

DC/DC | 120–750 Watt



	BEP-510C 120 Watt	DC160W 160 Watt																																				
Key Features	<ul style="list-style-type: none"> ✓ Wide input range ✓ 10...36 VDC ✓ Designed for fanless industrial computers and applications ✓ 100 Watt continuous fanless power! ✓ No minimum load required ✓ Very robust design and construction 	<ul style="list-style-type: none"> ✓ Ultra wide input range 6...36 VDC ✓ Extended temperature range -20...+70 °C ✓ Efficiency up to 93 % ✓ With motor vehicle ignition function ✓ No minimum load required ✓ Very robust design 																																				
Type	DC/DC, 1U / U-bracket	DC-ATX converter circuit board																																				
Input voltage	10...36 VDC	+24 VDC (6...36 V DC)																																				
Efficiency	> 80%	93%																																				
Temperature range	0...+70°C	-20...+70°C																																				
Safety / EMC	CE	–																																				
Dimension (W x D x H)	83.8 x 152.0 x 39.0 mm	160.0 x 45.0 x 24.0 mm																																				
3-Years-Warranty	✓	✓																																				
Output voltages	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>12.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>14.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>8.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.5 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>1.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	12.0 A	+5 V	0.0 A	14.0 A	+12 V	0.0 A	8.0 A	-12 V	0.0 A	0.5 A	+5 V _{sb}	0.0 A	1.0 A	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>8.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>8.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>12.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.2 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>2.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	8.0 A	+5 V	0.0 A	8.0 A	+12 V	0.0 A	12.0 A	-12 V	0.0 A	0.2 A	+5 V _{sb}	0.0 A	2.0 A
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- Industrial Automation
- Embedded Systems
- Energy and Communication
- Transportation and Logistics
- Maritime



➤	DC161W 160 Watt	BEP-520C 200 Watt																																				
Key Features	<ul style="list-style-type: none"> ✔ Cable management system ✔ Ultra wide input range 6...36 VDC ✔ Extended temperature range -20...+70 °C ✔ Efficiency up to 93 % ✔ With motor vehicle ignition function ✔ No minimum load required ✔ Very robust design 	<ul style="list-style-type: none"> ✔ Only high-quality polymer capacitors ✔ Design lifetime 12+ Years ✔ Constant ripple voltages over the entire temperature range of -20...+70 °C ✔ No minimum load required ✔ Low standby consumption <0.3 W ✔ ErP Lot 6 2013 ready 																																				
Type	DC-ATX converter circuit board	DC/DC, 1 U / U-bracket																																				
Input voltage	+24 VDC (6...36 V DC)	16...32 VDC																																				
Efficiency	93%	> 90% (24 V _{in})																																				
Temperature range	-20...+70 °C	-20...+70 °C																																				
Safety / EMC	–	CE, designed according to CCC																																				
Dimension (W x D x H)	160.0 x 45.0 x 24.0 mm	100.0 x 186.0 x 39.5 mm																																				
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DC INPUT

DC/DC | 120–750 Watt



>	BEH-522C 220 Watt	BES-540C 400 Watt																																				
Key Features	<ul style="list-style-type: none"> ✓ +24V DC input (20...36 VDC) ✓ Designed for industrial applications ✓ +3,3V and +5V sense line ✓ Ball bearing fan ✓ No minimum load required ✓ Designed for 24/7 continuous operation 	<ul style="list-style-type: none"> ✓ +24V DC input (20...36 VDC) ✓ Designed for applications in industry, logistics and transportation ✓ TÜV and UL approved ✓ High efficiency >81 % ✓ No minimum load required ✓ Strong 12 V rail (30 A) 																																				
Type	DC/DC, FLEX ATX	DC/DC, ATX																																				
Input voltage	+24 VDC (20...36 V DC)	+24 VDC (20...36 V DC)																																				
Efficiency	≥82 % at 24 VDC	> 81 % at full load																																				
Temperature range	0...+70°C	0...+70°C, startable from -20°C																																				
Safety / EMC	CE	EN/UL62368-1, CE																																				
Dimension (W x D x H)	40.3 x 81.5 x 170 mm	150.0 x 140.0 x 86.0 mm																																				
3-Years-Warranty	✓	✓																																				
Output voltages	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>17.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>18.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>17.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.3 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>2.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	17.0 A	+5 V	0.0 A	18.0 A	+12 V	0.0 A	17.0 A	-12 V	0.0 A	0.3 A	+5 V _{sb}	0.0 A	2.0 A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>30.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	25.0 A	+5 V	0.0 A	25.0 A	+12 V	0.0 A	30.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.5 A
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- Industrial Automation
- Embedded Systems
- Energy and Communication
- Transportation and Logistics
- Maritime



➤	BES-540T 400 Watt	BEH-542C 420 Watt																																				
Key Features	<ul style="list-style-type: none"> ✔ -48VDC input (-36...-72 VDC) ✔ Designed for applications in industry, telecommunication and transportation ✔ TÜV and UL approved ✔ High efficiency >80% ✔ No minimum load required ✔ Strong 12 V rail (32 A) 	<ul style="list-style-type: none"> ✔ +24 VDC input ✔ +3.3 V and +5 V sense line ✔ Ball-bearing fan ✔ Wide temperature range -20...+70 °C ✔ No minimum load required ✔ Designed for continuous operation 24/7 																																				
Type	DC/DC, ATX	DC/DC, 1U																																				
Input voltage	-48 VDC (-36...-72 V DC)	+24 VDC (18...36 VDC)																																				
Efficiency	> 80% at full load	≥ 85% at 24 VDC																																				
Temperature range	0...+70°C, startable from -20°C	-20...+70°C																																				
Safety / EMC	EN/UL62368-1, CE	Meets IEC/EN62368-1 and UL62368-1, CE																																				
Dimension (W x D x H)	150.0 x 140.0 x 86.0 mm	100.0 x 225.0 x 40.5 mm																																				
3-Years-Warranty	✔	✔																																				
Output voltages	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">min</th> <th style="text-align: center;">max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">25.0 A</td> </tr> <tr> <td>+5 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">25.0 A</td> </tr> <tr> <td>+12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">32.0 A</td> </tr> <tr> <td>-12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">3.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	25.0 A	+5 V	0.0 A	25.0 A	+12 V	0.0 A	32.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.5 A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">min</th> <th style="text-align: center;">max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">25.0 A</td> </tr> <tr> <td>+5 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">25.0 A</td> </tr> <tr> <td>+12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">33.0 A</td> </tr> <tr> <td>-12 V</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td style="text-align: center;">0.0 A</td> <td style="text-align: center;">3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	25.0 A	+5 V	0.0 A	25.0 A	+12 V	0.0 A	33.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.0 A
	min	max																																				
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-12 V	0.0 A	0.8 A																																				
+5 V _{sb}	0.0 A	3.0 A																																				



DC INPUT

DC/DC | 120–750 Watt

NEW!



	BEH-546C 460 Watt	BES-560T 600 Watt																																				
Key Features	<ul style="list-style-type: none"> ✓ +24 VDC input ✓ +3.3 V and +5 V sense line ✓ Ball-bearing fan ✓ Wide temperature range -20...+70 °C ✓ No minimum load required ✓ Designed for continuous operation 24/7 	<ul style="list-style-type: none"> ✓ -48 VDC input ✓ Designed for applications in industry, telecommunication and transportation ✓ TÜV and UL approved ✓ High efficiency >80 % ✓ No minimum load required ✓ Strong 12 V rail (45 A) 																																				
Type	DC/DC, 1U	DC/DC, ATX																																				
Input voltage	+24 VDC (18...36 VDC)	-48 VDC (-36...-72 VDC)																																				
Efficiency	≥ 80% at 24 VDC	> 80% at full load																																				
Temperature range	-20...+70 °C	0...+70 °C, startable from -20 °C																																				
Safety / EMC	Meets IEC/EN62368-1 and UL62368-1, CE	EN/UL62368-1, CE																																				
Dimension (W x D x H)	100.0 x 225.0 x 40.5 mm	150.0 x 140.0 x 86.0 mm																																				
3-Years-Warranty	✓	✓																																				
Output voltages	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>37.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.0 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	25.0 A	+5 V	0.0 A	25.0 A	+12 V	0.0 A	37.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.0 A	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>25.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>45.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.8 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>3.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	25.0 A	+5 V	0.0 A	25.0 A	+12 V	0.0 A	45.0 A	-12 V	0.0 A	0.8 A	+5 V _{sb}	0.0 A	3.5 A
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- Industrial Automation
- Embedded Systems
- Energy and Communication
- Transportation and Logistics
- Maritime



NEW!



➤	BEH-575C 750 Watt		
Key Features	<ul style="list-style-type: none"> ✔ +24 VDC input ✔ Designed for continuous operation 24/7 ✔ Efficiency > 85 % (24 VDC) ✔ Max. operation altitude 5000 m ✔ No minimum load required 		
Type	DC/DC, 1U		
Input voltage	+24 VDC (18...36 VDC)		
Efficiency	≥ 85 % at 24 VDC		
Temperature range	-20...+70 °C		
Safety / EMC	Meets IEC/EN62368-1 and UL62368-1, CE		
Dimension (W x D x H)	100.0 x 225.0 x 40.5 mm		
3-Years-Warranty	✔		
Output voltages		min	max
	+3.3 V	0.0 A	25.0 A
	+5 V	0.0 A	25.0 A
	+12 V	0.0 A	60.0 A
	-12 V	0.0 A	0.8 A
	+5 V _{sb}	0.0 A	3.5 A

🛠️ ACCESSORIES

For your industrial PC PSUs we will be glad to supply appropriate accessories such as mounting screws, set of safety clips, ATX extensions, adapters and much more.

To obtain an overall view of our portfolio please visit our website www.bicker.de.



BEO SERIES

FOR RELIABLE AND FANLESS SYSTEMS

The fanless power supply series BEO offers reliability in every detail! The compact and powerful AC/DC switching power supplies deliver a fanless continuous output power. For worldwide use the open-frame PSUs have a wide-range input (90 to 264 V AC at 47 to 63 Hz). The high quality components and the well-engineered and highly efficient circuit design make the BEO series the first choice for supplying closed systems and embedded IPCs in a wide variety of demanding industrial applications.

Benefit from these advantages:

- ✓ **High-quality switching power supplies for fanless systems**
- ✓ **International safety approvals including IEC/EN/UL 62368-1**
- ✓ **Worldwide use with universal power input 90...264 V AC**
- ✓ **Power-saving with high efficiency up to 93 %**
- ✓ **Compact PSU design with high power density**
- ✓ **Optimal thermal management for long service life**
- ✓ **Ambient temperature range up to +70 °C**
- ✓ **High insulation voltages**
- ✓ **Reliable 24/7 continuous operation**
- ✓ **Long-term availability**
- ✓ **3 years warranty**



The individual PSU models in the power range 80–500 W are available with **various output voltages**. For further information and data sheets please visit our website or contact us directly.

3 Years
★★★★★
Warranty

COMPACT DESIGN

High power density in a compact and well engineered PSU design saves space in your application.

PROTECTION FUNCTIONS

Maximum operational safety due to standard built-in protection functions.

LATEST SAFETY STANDARDS

All BEO power supplies are IEC/EN/UL 62368-1 certified.

JAPANESE BRAND +105°C CAPACITORS

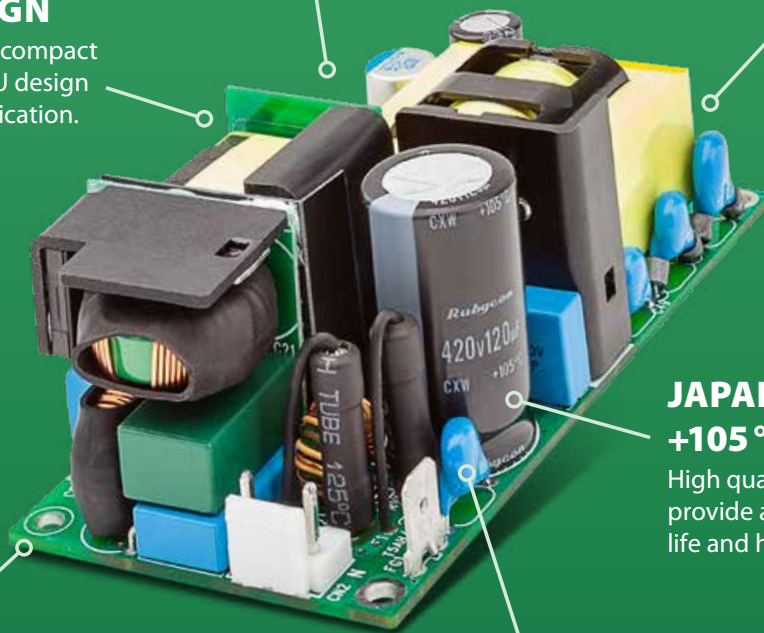
High quality electrolytic capacitors provide a particularly long service life and high performance.

FR 4 CIRCUIT BOARD

High-quality PCB in FR4 industrial quality for optimal dimensional stability and durability.

LOW LEAKAGE CURRENTS

The power supplies of the BEO series combine low leakage currents with excellent EMC characteristics.



BEO-0800
80 Watt



BEO-1400M
140 Watt



BEO-5000M
500 Watt



POWER SUPPLIES

AC/DC | 80–500 Watt



	BEO-0800 80 Watt	BEO-1400M 140 Watt
Key Features	<ul style="list-style-type: none"> ✓ Designed for industrial applications ✓ Compact design 2x4" ✓ IEC/EN/UL 62368-1 certified ✓ High reliability (MTBF ≥ 300 000 h) ✓ EMI meets FCC/CISPR 22 Class B ✓ 150W output with forced air cooling (20CFM fan) 	<ul style="list-style-type: none"> ✓ Designed for industrial and medical applications ✓ High power density on 2x4" ✓ Meets DOE Level VI ✓ High efficiency up to 93 % ✓ 140W continuous fanless power 200W with forced air cooling
Type	AC/DC, Open Frame	AC/DC, Open Frame
Input voltage	90...264 VAC	90...264 VAC, active PFC
Efficiency	Up to 91 % depending on model	Up to 93 % depending on model
Fanless power	80 Watt	140 Watt
Insulation voltage	Input/Output 4000 VDC Input/FG 2500 VDC	Input/Output 4000 VAC (2xMOPP) Input/FG 1500 VAC (1xMOPP)
Temperature range	-20...+70°C	0...+70°C
Safety / EMC	IEC/EN/UL 62368-1, EMC EN55032	CB, CE, IEC/EN/UL60601-1 (3.1 Edition), IEC/EN/UL 62368-1, EN 60601-1-2, EN 55032
Chassis information	Open Frame without chassis	Open Frame
Dimension (W x D x H)	50.8 x 101.6 x 33.0 mm	50.8 x 101.6 x 32.0 mm
3-Years-Warranty	✓	✓
Article No.	BEO-0812	BEO-1412M
Output voltage	+12 V / 6.66 A (convection cooling) +12 V / 12.5 A (forced air cooling)	+12 V / 11.66 A (convection cooling) +12 V / 16.66 A (forced air cooling)
	BEO-0824	BEO-1424M
	+24 V / 3.33 A (convection cooling) +24 V / 6.25 A (forced air cooling)	+24 V / 5.83 A (convection cooling) +24 V / 8.33 A (forced air cooling)

- Industrial Automation
- Gaming
- Embedded Systems
- Vending and POS/POI
- Telecommunication



➤ VERTICAL MARKETS



➤	BEO-5000M 500 Watt	BEG-300-1224 300 Watt
Key Features	<ul style="list-style-type: none"> ✔ High insulation voltages ✔ With Power-Good signal and remote control ✔ Integrated Current-Share function ✔ Wide temperature range 0...+70 °C ✔ International safety approvals 	<ul style="list-style-type: none"> ✔ Dual output +12V and +24V ✔ 150 Watt continuous fanless power! ✔ Wide temperature range -20...+70 °C ✔ International safety approvals
Type	AC/DC, Open Frame	AC/DC, Open Frame
Input voltage	90...264 VAC, active PFC	90...264 VAC, active PFC
Efficiency	87...91 % depending on model	88% at nominal load
Fanless power	500 Watt	150 Watt
Insulation voltage	Input/Output 4500 VAC (2xMOPP) Input/FG 1500 VAC (1xMOPP) Output/FG 1750 VAC (1xMOPP)	Input/Output 4242 VDC Input/FG 2636 VDC
Temperature range	0...+70 °C	-20...+70 °C
Safety / EMC	CE, EN/UL62368-1, IEC60601-1:2005 (3rd Edition), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)	EN/UL62368-1, CE
Chassis information	Open Frame with U-chassis	Open Frame with U-chassis
Dimension (WxDxH)	118.5 x 203.2 x 42.0 mm	101.6 x 152.4 x 39.9 mm
3-Years-Warranty	✔	✔
Article No.	BEO-5012M +12V / 41.6A BEO-5024M +24V / 20.8A BEO-5030M +30V / 16.6A BEO-5036M +36V / 13.85A BEO-5048M +48V / 10.4A	BEG-300-1224 V1 +12V / 16.6 A V2 +24V / 8.3 A
Output voltage	For all models: +5 V _{sb} / 1 A +12 V _{fan} / 1 A	



DESKTOP ADAPTERS

AC/DC | 60–150 Watt



>	BET-0600 60 / 65 Watt	BET-0900-T 90 Watt
Key Features	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ EN/UL62368-1 ✓ Only with 105 °C high quality capacitors ✓ Energy efficiency level VI and Tier2 conform ✓ Low standby consumption <0.15 W ✓ Wide temperature range up to +60 °C ✓ International approvals 	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ EN/UL62368-1 ✓ Only with 105 °C high quality capacitors ✓ Energy efficiency level VI and Tier2 conform ✓ Low standby consumption <0.15 W ✓ Wide temperature range up to +60 °C ✓ International approvals
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC, active PFC
Efficiency	App. 90 %	App. 90 %
Fanless power	60/65 Watt	90 Watt
Insulation voltage	Input/Output 4242 VDC Input/FG 3000 VAC	Input/Output 4242 VDC Input/FG 2718 VAC
Temperature range	-20...+60 °C	-20...+60 °C
Safety / EMC	EN/UL62368-1, CE, designed according to CCC	EN/UL62368-1, CE, designed according to CCC
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	53.0 x 115.0 x 38.0 mm	64.0 x 151.0 x 36.0 mm
3-Years-Warranty	✓	✓
Article No.	BET-0612	BET-0912-T
Output voltage	+12 V / 5.0 A	+12 V / 7.0 A
	BET-0619	BET-0912-T-B3
	+19 V / 3.4 A	+12 V / 7.0 A
	BET-0624	BET-0919-T
	+24 V / 2.7 A	+19 V / 4.4 A
		BET-0924-T
		+24 V / 3.7 A

- Industrial Automation
- Gaming
- Embedded Systems
- Vending and POS/POI
- Telecommunication



➤ VERTICAL MARKETS



➤	BET-1500 140 / 150 Watt
Key Features	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ Only with 105 °C high quality capacitors ✔ Energy efficiency level VI and Tier 2 conform ✔ Low standby consumption <0.15 W ✔ Wide temperature range up to +65 °C ✔ International approvals
Type	AC/DC, Desktop adapter
Input voltage	90...264 VAC, active PFC
Efficiency	App. 90% (230 VAC and full load)
Fanless power	140 / 150 Watt
Insulation voltage	Input/Output 4242 VDC Input/FG 2121 VDC
Temperature range	-30...+65 °C
Safety / EMC	CCC, CE, EN/UL62368-1
Chassis information	Entirely closed plastic case
Dimension (W x D x H)	85.0 x 170.0 x 44.0 mm
3-Years-Warranty	✔
Article No.	BET-1512 +12 V / 11.7 A
Output voltage	BET-1519 +19 V / 7.9 A
	BET-1524 +24 V / 6.2 A

⊕ ACCESSORIES

For your external power supplies we will be glad to supply appropriate accessories such as mounting screws, filter, cables, adapters and much more.

To obtain an overall view of our portfolio please visit our website www.bicker.de.



DESKTOP ADAPTERS

AC/DC | 18–300 Watt



NEW!

	ATS018T-W 18 Watt	ATS024T 24 Watt
Key Features	<ul style="list-style-type: none"> ✓ Wall mount adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption < 0.1 W ✓ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption < 0.075 W ✓ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥81%	≥86%
Fanless power	15/19.2 Watt	20/24 Watt
Insulation voltage	Input/Output 4242 VDC Input/FG 2500 VAC	Input/Output 4242 VDC Input/FG 2500 VAC
Temperature range	0...+40°C	0...+40°C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	E(EU): 34.0 x 72.0 x 90.0 mm	C14: 50.0 x 100.0 x 33.0 mm C8: 50.0 x 88.0 x 34.0 mm
3-Years-Warranty		
Article No.	ATS018T-W050X	ATS024T-X050
Output voltage	+5 V / 3.0 A	+5 V / 4.0 A
	ATS018T-W120X	ATS024T-X120
	+12 V / 1.6 A	+12 V / 2.0 A
	ATS018T-W240X	ATS024T-X240
	+24 V / 0.8 A	+24 V / 1.0 A
		ATS024T-X480
		+48 V / 0.5 A

- Industrial Automation
- Gaming
- Embedded Systems
- Vending and POS/POI
- Telecommunication



➤ VERTICAL MARKETS



➤	ATS024T-W 24 Watt	ATS036T 36 Watt
Key Features	<ul style="list-style-type: none"> ✔ Wall mount adapter for industrial applications ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and Tier 2 conform ✔ No load power consumption < 0.075 W ✔ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and Tier 2 conform ✔ No load power consumption < 0.075 W ✔ Regulated output with low ripple noise
Type	AC/DC, Wall Mount Adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥83%	≥87%
Fanless power	20/24 Watt	25/36 Watt
Insulation voltage	Input/Output 4242 VDC	Input/Output 4242 VDC Input/FG 2500 VAC
Temperature range	0...+40°C	0...+40°C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	E(EU): 34.0 x 72.0 x 90.0 mm	C14: 50.0 x 100.0 x 33.0 mm C8: 50.0 x 99.0 x 33.0 mm
3-Years-Warranty		
Article No.	ATS024T-W050X	ATS036T-X050
Output voltage	+5 V / 4.0 A	+5 V / 5.0 A
	ATS024T-W120X	ATS036T-X120
	+12 V / 2.0 A	+12 V / 3.0 A
	ATS024T-W240X	ATS036T-X240
	+24 V / 1.0 A	+24 V / 1.5 A
	ATS024T-W480X	ATS036T-X480
	+48 V / 0.5 A	+48 V / 0.75 A



DESKTOP ADAPTERS

AC/DC | 18–300 Watt



>	ATS036T-W 36 Watt	ATS040T 40 Watt
Key Features	<ul style="list-style-type: none"> ✓ Wall mount adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption <0.075W ✓ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption <0.075W ✓ Regulated output with low ripple noise
Type	AC/DC, Wall Mount Adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥84%	≥87%
Fanless power	25/36 Watt	40/48 Watt
Insulation voltage	Input/Output 4242 VDC	Input/Output 4242 VDC Input/FG 2500 VAC
Temperature range	0...+40°C	0...+40°C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	E(EU): 34.0 x 79.0 x 94.0 mm	50.0 x 99.0 x 33.0 mm
3-Years-Warranty		
Article No.	ATS036T-W050X	ATS040T-X120
Output voltage	+5 V / 5.0 A	+12 V / 3.3 A
	ATS036T-W120X	ATS040T-X190
	+12 V / 3.0 A	+19 V / 2.1 A
	ATS036T-W240X	ATS040T-X240
	+24 V / 1.5 A	+24 V / 1.67 A
	ATS036T-W480X	ATS040T-A480
	+48 V / 0.75 A	+48 V / 1.0 A

- Industrial Automation
- Gaming
- Embedded Systems
- Vending and POS/POI
- Telecommunication



➤	ATS120T 120 Watt	ATS160T 160 Watt
Key Features	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and Tier 2 conform ✔ No load power consumption < 0.15W ✔ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and Tier 2 conform ✔ No load power consumption < 0.15W ✔ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥89%	≥88%
Fanless power	108/120 Watt	150/160 Watt
Insulation voltage	Input/Output 4242 VDC Input/FG 2500 VAC	Input/Output 4242 VDC Input/FG 2500 VAC
Temperature range	0...+40°C	0...+40°C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	66.0 x 168.0 x 39.0 mm	74.0 x 175.0 x 42.0 mm
3-Years-Warranty		
Article No.	ATS120T-P120 +12 V / 9.0 A	ATS160T-P120 +12 V / 12.5 A
Output voltage	ATS120T-P190 +19 V / 6.3 A	ATS160T-P190 +19 V / 8.4 A
	ATS120T-P240 +24 V / 5.0 A	ATS160T-P240 +24 V / 6.6 A
	ATS120T-P480 +48 V / 2.5 A	ATS160T-P480 +48 V / 3.3 A



DESKTOP ADAPTERS

AC/DC | 18–300 Watt



➤	ATS200T 200 Watt	ATS300T 300 Watt
Key Features	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption < 0.15 W ✓ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✓ Desktop adapter for industrial applications ✓ IEC/EN/UL 62368-1 ✓ CEC Energy Efficiency Level VI and Tier 2 conform ✓ No load power consumption < 0.5 W ✓ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥88%	≥87.5%
Fanless power	192/200 Watt	288/300 Watt
Insulation voltage	Input/Output 4242 VDC Input/FG 2500 VAC	Input/Output 4242 VDC Input/FG 2500 VAC
Temperature range	0...+40 °C	0...+40 °C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	81.0 x 183.0 x 42.0 mm	116.0 x 254.0 x 47.0 mm
3-Years-Warranty		
Article No. Output voltage	ATS200T-P120 +12 V / 16.0 A ATS200T-P190 +19 V / 10.5 A ATS200T-P240 +24 V / 8.3 A ATS200T-P480 +48 V / 4.17 A	ATS300T-P120 +12 V / 24.0 A ATS300T-P190 +19 V / 15.75 A ATS300T-P240 +24 V / 12.5 A ATS300T-P480 +48 V / 6.25 A

- Industrial Automation
- Gaming
- Embedded Systems
- Vending and POS/POI
- Telecommunication



➤	APD045T-A200 45 Watt	APD065T-A200 65 Watt
Key Features	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ USB Type-C ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and ErP Stage 2 conform ✔ No load power consumption < 0.1 W ✔ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✔ Desktop adapter for industrial applications ✔ USB Type-C ✔ IEC/EN/UL 62368-1 ✔ CEC Energy Efficiency Level VI and ErP Stage 2 conform ✔ No load power consumption < 0.1 W ✔ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥86% (9-20V) / ≥81% (5V)	≥86% (9-20V) / ≥81% (5V)
Fanless power	15/45 Watt	15/65 Watt
Insulation voltage	Input/Output 4242VDC	Input/Output 4242VDC
Temperature range	0...+40°C	0...+40°C
Safety / EMC	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024	IEC/EN/UL 62368-1, CB, CE, FCC, PSE, BSMI, CCC, RCM, LPS, EMC EN55032/61000-3-2,3 / 55024
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	50.0 x 99.0 x 33.0 mm	60.0 x 119.0 x 36.0 mm
3-Years-Warranty		
Article No.	APD045T-A200	APD065T-A200
Output voltage	+5 V / 3.0 A +9 V / 3.0 A +12 V / 3.0 A +15 V / 3.0 A +20 V / 2.25 A	+5 V / 3.0 A +9 V / 3.0 A +12 V / 3.0 A +15 V / 3.0 A +19 V / 3.43 A +20 V / 3.25 A



LYTE II SERIES

ULTRA-COMPACT. POWERFUL. RELIABLE.

The **LYTE II series** DIN-Rail power supplies are designed for cost sensitive users who need to fulfill essential features needed for many general industrial applications, without compromising on quality and reliability. The convection-cooled LYTE II series can operate in constant current mode, making it suitable for inductive and capacitive loads. The product is certified according to latest safety standards IEC/EN/UL 62368-1.

- ✓ **DIN-Rail PSUs for cost sensitive industrial applications**
- ✓ **Ultra-compact dimensions with high power density**
- ✓ **Universal wide-range input 90...264 VAC**
- ✓ **Built-in constant current circuit for reactive loads**
- ✓ **Extended temperature range -30 ... +70 °C (-40 °C Cold Start)**
- ✓ **Adjustable output voltage**
- ✓ **Compliance with DOE VI Energy Standard**
- ✓ **Reduced no-load power consumption**
- ✓ **SEMI F47 compliance**
- ✓ **Reliable 24/7 continuous operation**
- ✓ **Long-term availability**



The DIN-Rail power supplies of the LYTE II series are available with **120 W** and **240 W** and three nominal output voltages **12, 24 or 48 VDC**.

For further information and data sheets please visit our website or contact us directly.

We advise you personally and on-site.



SPACE-SAVING ALUMINIUM CHASSIS

The LYTE II series has a corrosion-resistant and robust aluminium chassis with an extremely slim design to save precious installation space.



3 Years
★★★★★
Warranty

CONSTANT CURRENT MODE OPERATION

The overcurrent protection is designed to operate in constant current mode, which makes the LYTE II series suitable for inductive and capacitive load applications.

ADJUSTABLE OUTPUT

For maximum application flexibility, the output voltage is adjustable.

DC OK LED

The green "DC OK" LED on the front indicates that the output is functioning correctly.

INTERNATIONAL SAFETY APPROVALS

Certifications and approvals include IEC/EN/UL 62368-1, IEC/EN 61010-1, 61010-2-201, CCC, EAC and RoHS directive. Electromagnetic radiated and conducted emissions are compliant to heavy industrial EN 61000-6-4 Class B emission standard and EN 61000-6-2 immunity standard.

UNIVERSAL AC INPUT

The AC universal input with active PFC enables international use in the environment of Industry 4.0, measurement and control systems, automation, robotics, industrial image processing and many more.



SERVICE & SUPPORT FOR DELTA PRODUCTS

Being a distribution partner of Delta, our experienced sales engineers advise you individually and in detail to find the best solution with the best price/performance ratio for your specific application. Our service team is at your disposal for all questions relating installation, settings, adjustments and technical support.



DELTA DIN-RAIL POWER SUPPLIES

AC/DC | DC/DC



	DELTA Lyte Series 120–480 Watt	DELTA Lyte II Series 120–240 Watt
Key Features	<ul style="list-style-type: none"> ✓ Built-in constant current circuit for reactive loads ✓ Up to 90.0 % efficiency ✓ Full power from -20...+50 °C at 230 V AC ✓ Built-in DC OK relay contact option available ✓ Conformal coating on PCBAs to protect against common dust / chemical pollutants 	<ul style="list-style-type: none"> ✓ Built-in constant current circuit for reactive loads ✓ High power density ✓ Slim Fit design ✓ Operates from -30...+70 °C with -40 °C Cold Start ✓ Reduced no-load power consumption
Type	AC/DC DC/DC DIN-Rail PSU	AC/DC DIN-Rail PSU
Input voltage	85...264 V AC / 120...375 V DC	90...264 V AC
Efficiency	90% (230 V AC)	86.5% (230 V AC)
Fanless power	120–480 Watt	75–480 Watt
Insulation voltage	Input/Output 3000 V AC Input/FG 2000 V AC Output/FG 500 V AC	Input/Output 3000 V AC Input/FG 2000 V AC Output/FG 1000 V AC
Temperature range	-20...+70 °C	-30...+70 °C (-40 °C Cold Start)
Safety / EMC	EN/UL 62368-1, UL 508, CE	EN/cUL 62368-1, EN 61010-1, EN 61010-2-201, CCC, EAC
Chassis information	Aluminium housing (IP20 compliant)	Aluminium housing
3-Years-Warranty		
Article No.	DRL-24V120W1AS +24 V / 5.0 A	DRL-12V120W1EN +12 V / 10.0 A
Output voltage	DRL-24V240W1AS +24 V / 10.0 A	DRL-12V240W1EN +12 V / 20.0 A
	DRL-24V480W1AS +24 V / 20.0 A	DRL-24V120W1EN +24 V / 5.0 A
	DRL-48V120W1AS +48 V / 2.5 A	DRL-24V240W1EN +24 V / 10.0 A
		DRL-48V120W1EN +48 V / 2.5 A
		DRL-48V240W1EN +48 V / 5.0 A

- Horticultural lighting
- Embedded Systems
- Industrial Automation
- Telecommunication
- Petrochemical



➤ VERTICAL MARKETS



➤	DELTA CliQM Series 80–960 Watt	DELTA Sync Series 15–96 Watt
Key Features	<ul style="list-style-type: none"> ✔ Built-in active PFC and up to 94% efficiency ✔ Full power from –25°C...+60°C ✔ Power Boost of 150% up to 7 seconds ✔ DNV GL / ABS for maritime applications ✔ Built-in DC OK Contact and LED indicator for DC OK / Overload ✔ Conformal coating on PCBAs 	<ul style="list-style-type: none"> ✔ Ultra-compact size and galvanic insulation ✔ Full power from –10°C...+55°C ✔ Up to 89.0% efficiency and built-in active PFC ✔ NEC Class 2 / LPS certified (NZ models) ✔ Built-in DC OK relay contact option available ✔ Extreme low temperature cold start at –40°C
Type	AC/DC DC/DC DIN-Rail PSU	AC/DC DC/DC DIN-Rail PSU
Input voltage	85...276 V AC / 88...375 V DC	85...264 V AC / 120...375 V DC
Efficiency	94% (230 V AC)	>89% (230 V AC)
Fanless power	120–240 Watt	15–96 Watt
Insulation voltage	Input/Output 4540 V AC Input/FG 2500 V AC Output/FG 1500 V AC	Input/Output 3000 V AC Input/FG 3000 V AC Output/FG 500 V AC
Temperature range	–25...+70°C (–40°C Cold Start)	–20...+70°C (Cold Start at –40°C at 40% load)
Safety / EMC	EN/cUL 62368-1, EN 61010-1, EN 61010-2-201, cUL 508, DNV GL, ABS	IEC/EN/cUL 62368-1, cUL 508, LPS (NZ models)
Chassis information	Aluminium housing	Plastic
3-Years-Warranty		
Article No.	DRM-24V80W1PN +24 V / 3.4 A	DRS-5V30W1NZ +5 V / 3.0 A
Output voltage	DRM-24V120W1PN +24 V / 5.0 A	DRS-5V50W1NZ +5 V / 5.0 A
	DRM-24V240W1PN +24 V / 10.0 A	DRS-5V50W1AZ +5 V / 6.0 A
	DRM-24V480W1PN +24 V / 20.0 A	DRS-12V50W1NZ +12 V / 4.0 A
	DRM-24V960W1PN +24 V / 40.0 A	DRS-24V30W1NZ +24 V / 1.25 A
		DRS-24V30W1AZ +24 V / 1.25 A
		DRS-24V50W1NZ +24 V / 2.1 A
		DRS-24V100W1NZ +24 V / 3.8 A
		DRS-24V100W1AZ +24 V / 4.0 A



DELTA DIN-RAIL POWER SUPPLIES

AC/DC | DC/DC



>	DELTA Chrome Series 10–91 Watt
Key Features	<ul style="list-style-type: none"> ✓ NEC Class 2/ LPS certified ✓ Protection Class II, double insulation ✓ Full power up to +55 °C ✓ Power will not derate for the entire input voltage range ✓ Efficiency >86.0 % (115 V AC and 230 V AC) ✓ OVP / OCP / OTP
Type	AC/DC DC/DC DIN-Rail PSU
Input voltage	90...264 V AC / 125...375 VDC
Efficiency	>86% (230 V AC)
Fanless power	10–91.2 Watt
Insulation voltage	Input/Output 3000 VAC
Temperature range	-25...+71 °C
Safety / EMC	EN/cUL 62368-1, cUL 508
Chassis information	Plastic
3-Years-Warranty	
Article No.	DRC-5V10W1AZ +5 V / 1.5 A
Output voltage	DRC-12V10W1AZ +12 V / 0.83 A
	DRC-12V30W1AZ +12 V / 2.1 A
	DRC-12V60W1AZ +12 V / 4.5 A
	DRC-12V100W1AZ +12 V / 6.0 A
	DRC-24V10W1AZ +24 V / 0.42 A
	DRC-24V30W1AZ +24 V / 1.25 A
	DRC-24V60W1AZ +24 V / 2.5 A
	DRC-24V100W1AZ +24 V / 3.8 A

- Horticultural lighting
- Embedded Systems
- Industrial Automation
- Telecommunication
- Petrochemical



> VERTICAL MARKETS



➤	DELTA CliQ II DC UPS module 960 Watt	DELTA Chrome DC UPS module 240 Watt
Key Features	<ul style="list-style-type: none"> ✔ Full corrosion resistant aluminium chassis ✔ Suitable for 24 V system up to 40 A ✔ Built-in diagnostic monitoring for DC OK, discharge and battery fail ✔ High MTBF >500 000 h (Telcordia SR-332) ✔ Wide temperature range -20...+60 °C ✔ Conformal coating on PCBA 	<ul style="list-style-type: none"> ✔ Suitable for 24 V system up to 10 A ✔ Built-in diagnostic monitoring for DC OK, discharge and battery fail ✔ Full power from -20...+60°C ✔ High MTBF >500 000 h (Telcordia SR-332) ✔ Overvoltage / Overcurrent / Over temperature / Short circuit protections
Type	DC UPS DIN-Rail module	DC UPS DIN-Rail module
Input voltage	24–28 VDC	24–28 VDC
Efficiency	>70 % charging / >99 % buffering	>80 % charging / >99 % buffering
Fanless power	960 Watt max (24 V / 40 A)	240 Watt max (24 V / 10 A)
Insulation voltage	Power/Signal port to housing 1000 VAC Power port to signal port 1000 VAC	Power port to signal port 1000 VAC
Temperature range	-20...+60°C (full power)	-20...+60°C (full power)
Safety / EMC	cUL508, cUL1310	cUL508, cUL1310
Chassis information	Aluminium housing	Plastic
3-Years-Warranty		
Article No.	DRU-24V40ABN	DRU-24V10ACZ
Output voltage		



DELTA POWER SUPPLIES

AC/DC



➤	DELTA MDS Open Frame Series 250–400 Watt	DELTA MDS Covered Series 250–400 Watt
Key Features	<ul style="list-style-type: none"> ✓ Up to 240 Watt convection in 3.0" x 5.0" x 1.4" ✓ Safety approvals to IEC 60601-1 3.1rd Ed. and IEC 62368-1 medical products ✓ Efficiency up to 94 % (230V) ✓ Up to 800 000 h MTBF ✓ Operating altitude 5 000 m ✓ Full power from –10...+50 °C 	<ul style="list-style-type: none"> ✓ Up to 240 Watt convection in 3.5" x 5.5" x 1.75" ✓ Safety approvals to IEC 60601-1 3.1rd Ed. and IEC 62368-1 medical products ✓ Efficiency up to 94 % (230V) ✓ Up to 800 000 h MTBF ✓ Operating altitude 5 000 m ✓ Full power from –10...+50 °C
Type	AC/DC Open frame Power Supply	AC/DC Open frame Power Supply with chassis
Input voltage	90...264 V AC	90...264 V AC
Efficiency	94% (230 V AC)	94% (230 V AC)
Fanless power	150–240 Watt	150–240 Watt
Insulation voltage	Input/Output 4000 V AC Input/FG 1500 V AC Output/FG 1500 V AC	Input/Output 4000 V AC Input/FG 1500 V AC Output/FG 1500 V AC
Temperature range	-10...+70 °C	-10...+70 °C
Safety / EMC	IEC/EN/UL 60601-1 3.1 Ed. ; IEC/EN/UL 62368-1	IEC/EN/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1
Chassis information	Open frame	SPCC
3-Years-Warranty		
Article No. Output voltage	MDS-250APB12 AA +12 V / 20.84 A MDS-250APB24 AA +24 V / 10.41 A MDS-300APB12 AA +12 V / 25.00 A MDS-300APB18 AA +18 V / 16.66 A MDS-300APB24 AA +24 V / 12.50 A MDS-300APB48 AA +28 V / 6.25 A MDS-400APB12 AA +12 V / 33.33 A MDS-400APB24 AA +24 V / 16.66 A	MDS-250ADB12 AA +12 V / 20.84 A MDS-250ADB24 AA +24 V / 10.41 A MDS-300ADB12 AA +12 V / 25.00 A MDS-300ADB18 AA +18 V / 16.66 A MDS-300ADB24 AA +24 V / 12.50 A MDS-300ADB48 AA +48 V / 6.25 A MDS-400ADB12 AA +12 V / 33.33 A MDS-400ADB24 AA +24 V / 16.67 A

- Horticultural lighting
- Embedded Systems
- Industrial Automation
- Telecommunication
- Petrochemical



> VERTICAL MARKETS



➤	DELTA PMT-2 Series 35–100 Watt	DELTA PMT-2 Series 35–100 Watt
Key Features	<ul style="list-style-type: none"> ✔ EN 62368-1 / cTUVus: UL 62368-1 ✔ No load power consumption <0.3 W ✔ Low profile design: 30 mm height ✔ Wide operating temperature –30...+70°C (support –40°C cold start) ✔ High MTBF >700 000 h (Telcordia SR-332) ✔ Operating Altitude 5000 m 	<ul style="list-style-type: none"> ✔ EN 62368-1 / cTUVus: UL 62368-1 ✔ No load power consumption <0.3 W ✔ Low profile design: 30 mm height ✔ Wide operating temperature –30...+70°C (support –40°C cold start) ✔ High MTBF >700 000 h (Telcordia SR-332) ✔ Operating Altitude 5000 m
Type	AC/DC enclosed PSU	AC/DC enclosed PSU
Input voltage	90...264 VAC	90...264 VAC
Efficiency	90% (230 VAC)	91.5% (230 VAC)
Fanless power	36–108 Watt	38–110 Watt
Insulation voltage	Input/Output 4000 VAC Input/FG 2000 VAC Output/FG 1250 VAC	Input/Output 4000 VAC Input/FG 2000 VAC Output/FG 1250 VAC
Temperature range	–30...+70°C (–40°C cold start)	–30...+70°C (–40°C cold start)
Safety / EMC	EN 62368-1, cTUVus: UL 62368-1, IEC/EN 60335-1	EN 62368-1, cTUVus: UL 62368-1, IEC/EN 60335-1
Chassis information	Aluminium housing	Aluminium housing
3-Years-Warranty		
Article No. Output voltage	PMT-12V35W2BA +12 V / 3.0 A PMT-12V50W2BA +12 V / 4.2 A PMT-12V75W2BA +12 V / 6.0 A PMT-12V100W2BA +12 V / 8.5 A PMT-24V35W2BA +24 V / 1.5 A PMT-24V50W2BA +24 V / 2.2 A PMT-24V75W2BA +24 V / 3.2 A PMT-24V100W2BA +24 V / 4.5 A	PMT-36V35W2BA +36 V / 1.00 A PMT-36V50W2BA +36 V / 1.45 A PMT-36V75W2BA +36 V / 2.10 A PMT-36V100W2BA +36 V / 3.00 A PMT-48V35W2BA +48 V / 0.80 A PMT-48V50W2BA +48 V / 1.10 A PMT-48V75W2BA +48 V / 1.60 A PMT-48V100W2BA +48 V / 2.30 A



DELTA POWER SUPPLIES

AC/DC



➤	DELTA MEB Series 504–1200 Watt	DELTA IMA Series 400–2000 Watt																																
Key Features	<ul style="list-style-type: none"> ✓ Up to 1200 Watt ✓ Full power from 90...264V, up to +50°C ✓ Up to 500 000 h MTBF ✓ 2x MOPP insulation ✓ Suited for type BF medical products ✓ 5V / 2A standby output ✓ Intelligent fan speed control 	<ul style="list-style-type: none"> ✓ ITE and MED safety certification ✓ Wide adjustable output voltage range ✓ 5 VDC standby output ✓ High efficiency up to 94 % ✓ Low acoustic noise level ✓ 2x MOPP insulation 																																
Type	AC/DC enclosed PSU	AC/DC DC/DC 1 U enclosed PSU																																
Input voltage	85...264 VAC	80...275 VAC / 120...300 VDC																																
Efficiency	Up to 91.5 % (full load)	94 % (230 VAC)																																
Fanless power	N/A	N/A																																
Insulation voltage	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC																																
Temperature range	-20...+70°C	-20...+70°C																																
Safety / EMC	IEC/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1	IEC/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1																																
Chassis information	Metal housing	Metal housing																																
3-Years-Warranty																																		
Article No. Output voltage	<table border="0"> <tr><td>MEB-500A24F</td><td>+24 V / 21.0 A</td></tr> <tr><td>MEB-750A24B</td><td>+24 V / 31.25 A</td></tr> <tr><td>MEB-1K2A24</td><td>+24 V / 50.0 A</td></tr> <tr><td>MEB-1K2A42</td><td>+42 V / 28.5 A</td></tr> <tr><td>MEB-750A48B</td><td>+48 V / 15.63 A</td></tr> <tr><td>MEB-1K2A48</td><td>+48 V / 25.0 A</td></tr> </table>	MEB-500A24F	+24 V / 21.0 A	MEB-750A24B	+24 V / 31.25 A	MEB-1K2A24	+24 V / 50.0 A	MEB-1K2A42	+42 V / 28.5 A	MEB-750A48B	+48 V / 15.63 A	MEB-1K2A48	+48 V / 25.0 A	<table border="0"> <tr><td>IMA-S400-12</td><td>+12 V / 33.3 A</td></tr> <tr><td>IMA-S400-24</td><td>+24 V / 16.7 A</td></tr> <tr><td>IMA-S400-48</td><td>+48 V / 8.3 A</td></tr> <tr><td>IMA-S600-12</td><td>+12 V / 50.0 A</td></tr> <tr><td>IMA-S600-24</td><td>+24 V / 25.0 A</td></tr> <tr><td>IMA-S600-48</td><td>+48 V / 12.5 A</td></tr> <tr><td>IMA-S1000-12</td><td>+12 V / 84.0 A</td></tr> <tr><td>IMA-S1000-24</td><td>+24 V / 42.0 A</td></tr> <tr><td>IMA-S1000-48</td><td>+48 V / 21.0 A</td></tr> <tr><td>IMA-S2000-48</td><td>+48 V / 41.6 A</td></tr> </table>	IMA-S400-12	+12 V / 33.3 A	IMA-S400-24	+24 V / 16.7 A	IMA-S400-48	+48 V / 8.3 A	IMA-S600-12	+12 V / 50.0 A	IMA-S600-24	+24 V / 25.0 A	IMA-S600-48	+48 V / 12.5 A	IMA-S1000-12	+12 V / 84.0 A	IMA-S1000-24	+24 V / 42.0 A	IMA-S1000-48	+48 V / 21.0 A	IMA-S2000-48	+48 V / 41.6 A
MEB-500A24F	+24 V / 21.0 A																																	
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MEB-750A48B	+48 V / 15.63 A																																	
MEB-1K2A48	+48 V / 25.0 A																																	
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IMA-S400-48	+48 V / 8.3 A																																	
IMA-S600-12	+12 V / 50.0 A																																	
IMA-S600-24	+24 V / 25.0 A																																	
IMA-S600-48	+48 V / 12.5 A																																	
IMA-S1000-12	+12 V / 84.0 A																																	
IMA-S1000-24	+24 V / 42.0 A																																	
IMA-S1000-48	+48 V / 21.0 A																																	
IMA-S2000-48	+48 V / 41.6 A																																	

- Horticultural lighting
- Embedded Systems
- Industrial Automation
- Telecommunication
- Petrochemical



> VERTICAL MARKETS



➤	DELTA MEG-A Configurable Series 700–2100 Watt										
Key Features	<ul style="list-style-type: none"> ✔ 3/4/6 outputs selectable from 2...60V ✔ PC GUI for easy parameter setting and monitoring ✔ 2x MOPP insulation for medical application ✔ ITE and MED safety certification ✔ Class B conducted and radiated EMI ✔ Up to 500 000 h MTBF 										
Type	AC/DC enclosed PSU										
Input voltage	90...264 V AC										
Efficiency	93% (230 V AC)										
Fanless power	700–2100 Watt										
Insulation voltage	Input/Output 4000 V AC Input/FG 1500 V AC Output/FG 500 V AC										
Temperature range	-20...+70 °C										
Safety / EMC	IEC/UL/CSA 62368-1, IEC/UL/CSA 60601-1										
Chassis information	SGCC										
3-Years-Warranty											
Article No. Output voltage	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">MEG-700A3</td> <td style="width: 33%;">2 V...60 V (3 outputs)</td> <td style="width: 33%;"></td> </tr> <tr> <td>MEG-1K2A4</td> <td>2 V...60 V (4 outputs)</td> <td></td> </tr> <tr> <td>MEG-2K1A6</td> <td>2 V...60 V (6 outputs)</td> <td></td> </tr> </table>		MEG-700A3	2 V...60 V (3 outputs)		MEG-1K2A4	2 V...60 V (4 outputs)		MEG-2K1A6	2 V...60 V (6 outputs)	
MEG-700A3	2 V...60 V (3 outputs)										
MEG-1K2A4	2 V...60 V (4 outputs)										
MEG-2K1A6	2 V...60 V (6 outputs)										



BEO SERIES

FOR RELIABLE AND FANLESS SYSTEMS

The fanless power supply series BEO offers reliability in every detail! The high quality components and the well-engineered and highly efficient circuit design make the BEO series the first choice for supplying your demanding applications. Benefit from these advantages:

- ✓ High-quality switching power supplies for fanless systems
- ✓ International medical safety certifications
- ✓ Worldwide use with universal power input 90...264 VAC
- ✓ Power-saving with high efficiency up to 94 %
- ✓ High power density and flat power supply design
- ✓ Optimal thermal management for long service life
- ✓ Ambient temperature range up to +70 °C
- ✓ Reliable 24/7 continuous operation
- ✓ Long-term availability
- ✓ 3 years warranty



The individual PSU models in the power range 40–500 W are available with **various output voltages**. For further information and data sheets please visit our website or contact us directly.



BEO-0400M
40 Watt



BEO-0600M
60 Watt



BEO-1400M
140 Watt



BEO-1500M
150 Watt



BEO-2000M
200 Watt

3 Years
★★★★★
Warranty

JAPANESE BRAND +105 °C CAPACITORS

High quality electrolytic capacitors provide a particularly long service life and high performance.

2X MOPP INSULATION

Double insulation between input and output reliably protects patients and operators from electrical hazards.

PROTECTION FUNCTIONS

Maximum operational safety due to standard built-in protection functions.

CLEARANCE AND CREEPAGE DISTANCES

The clearance and creepage distances are designed according to the medical safety standard with up to 60 percent greater distances compared to an ITE standard power supply.

DOUBLE-FUSE PROTECTION

Fuses equipped in both L (live) and N (neutral) input line.

FR 4 CIRCUIT BOARD

High-quality PCB in FR4 industrial quality for optimal dimensional stability and durability.

LOW LEAKAGE CURRENTS

The power supplies of the BEO series combine low leakage currents with excellent EMC characteristics.



BEO-200MC
200 Watt



BEO-300M
300 Watt



BEO-300MC
300 Watt



BEO-500M
500 Watt



POWER SUPPLIES

MEDICAL | AC/DC | 40–500 Watt



	BEO-0400M 40 Watt	BEO-0600M 60 Watt
Key Features	<ul style="list-style-type: none"> ✓ Designed for industrial and medical applications ✓ High efficiency up to 88 % ✓ 40 Watt continuous fanless power ✓ Wide temperature range 0...+70 °C ✓ International safety approvals 	<ul style="list-style-type: none"> ✓ Designed for industrial and medical applications ✓ High efficiency up to 90 % ✓ 60 Watt continuous fanless power ✓ Wide temperature range -20...+70 °C ✓ International safety approvals
Type	AC/DC, Open Frame	AC/DC, Open Frame
Input voltage	90...264 V AC	90...264 V AC
Efficiency	80...88 % depending on model	82...90 % depending on model
Fanless power	40 Watt	60 Watt
Insulation voltage	Input/Output 5656 VDC (2x MOPP) Input/FG 2121 VDC (1x MOPP) Output/FG 2557 VDC (1x MOPP)	Input/Output 5656 VDC (2x MOPP) Input/FG 2121 VDC (1x MOPP) Output/FG 2600 VDC (1x MOPP)
Temperature range	0...+70 °C	-20...+70 °C
Safety / EMC	CE, IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)	CE, IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)
Chassis information	Open Frame (chassis optional)	Open Frame (chassis optional)
Dimension (W x D x H)	50.8 x 76.2 x 19.0 mm	50.8 x 101.6 x 27.9 mm
3-Years-Warranty	✓	✓
Article No.	BEO-0405M	BEO-0605M
Output voltage	+5 V / 6.0 A	+5 V / 8.0 A
	BEO-0412M	BEO-0612M
	+12 V / 3.3 A	+12 V / 5.0 A
	BEO-0415M	BEO-0615M
	+15 V / 2.6 A	+15 V / 4.0 A
	BEO-0424M	BEO-0624M
	+24 V / 1.6 A	+24 V / 2.5 A
	BEO-0430M	BEO-0648M
	+30 V / 1.3 A	+48 V / 1.25 A
	BEO-0436M	
	+36 V / 1.1 A	
	BEO-0448M	
	+48 V / 0.8 A	

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



> VERTICAL MARKETS

NEW!



>	BEO-1400M 140 Watt
Key Features	<ul style="list-style-type: none"> ✔ Designed for industrial and medical applications ✔ High power density on 2x4" ✔ Meets DOE Level VI ✔ High efficiency up to 93 % ✔ 140W continuous fanless power 200W with forced air cooling
Type	AC/DC, Open Frame
Input voltage	90...264 V AC, active PFC
Efficiency	Up to 93 % depending on model
Fanless power	140 Watt
Insulation voltage	Input / Output 4000 V AC (2x MOPP) Input / FG 1500 V AC (1x MOPP)
Temperature range	0...+70 °C
Safety / EMC	CB, CE, IEC/EN/UL60601-1 (3.1 Edition), IEC/EN/UL62368-1,
Chassis information	Open Frame
Dimension (W x D x H)	50.8 x 101.6 x 32.0 mm
3-Years-Warranty	✔
Article No.	BEO-1412M +12 V / 11.66 A (convection cooling) +12 V / 16.66 A (forced air cooling)
Output voltage	BEO-1424M +24 V / 5.83 A (convection cooling) +24 V / 8.33 A (forced air cooling)

+ ACCESSORIES

For your medical grade power supplies we will be glad to supply appropriate accessories such as mounting screws, filter, cables, adapters, chassis, covers and much more.

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POWER SUPPLIES

MEDICAL | AC/DC | 40–500 Watt



➤	BEO-1500M 150 Watt	BEO-2000M 200 Watt
Key Features	<ul style="list-style-type: none"> ✓ Designed for industrial and medical applications ✓ Extremely slim, installation height only 26.7 mm ✓ 150 Watt continuous fanless power ✓ Wide temperature range -20...+70 °C ✓ International safety approvals 	<ul style="list-style-type: none"> ✓ 180 W continuous fanless power ✓ Very compact design 2 x 4" ✓ Wide temperature range -20...+80 °C ✓ High efficiency up to 93.5% ✓ Meet Class I and Class II (without FG) ✓ Low Standby consumption: <0.3 W ✓ +12V fan output
Type	AC/DC, Open Frame	AC/DC, Open Frame
Input voltage	90...264 VAC, active PFC	90...264 VAC (100...240 VAC nominal), active PFC
Efficiency	90...93 % depending on model	92...93.5 % depending on model
Fanless power	150 Watt	180 Watt
Insulation voltage	Input/Output 6644 VDC (2x MOPP) Input/FG 2122 VDC (1x MOPP) Output/FG 2122 VDC (1x MOPP)	Input/Output 6196 VDC (2x MOPP) Input/FG 2122 VDC (1x MOPP) Output/FG 2122 VDC (1x MOPP)
Temperature range	-20...+70 °C	-20...+80 °C
Safety / EMC	IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE	IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE
Chassis information	Open Frame (chassis optional)	Open Frame
Dimension (W x D x H)	76.2 x 127.0 x 26.7 mm	101.6 x 50.8 x 37.6 mm
3-Years-Warranty	✓	✓
Article No. Output voltage	BEO-1512M +12 V / 12.5 A BEO-1524M +24 V / 6.2 A BEO-1536M +36 V / 4.1 A BEO-1548M +48 V / 3.1 A	BEO-2012M +12 V / 16.6 A BEO-2024M +24 V / 8.3 A BEO-2048M +48 V / 4.1 A
		For all models: +12 V _{fan} / 0.5 A

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



> VERTICAL MARKETS



>	BEO-2000MC 200 Watt
Key Features	<ul style="list-style-type: none"> ✔ 200 W continuous fanless power ✔ Very compact design (PCB 2 x 4") ✔ High power density ✔ Wide temperature range -20...+80 °C ✔ Meet Class I and Class II (without FG) ✔ Low Standby consumption: <0.3 W ✔ +12 V fan output
Type	AC/DC, Open Frame with chassis
Input voltage	90...264 V AC (100...240 V AC nominal), active PFC
Efficiency	92...93.5 % depending on model
Fanless power	200 Watt
Insulation voltage	Input/Output 6196 VDC (2x MOPP) Input/FG 2122 VDC (1x MOPP) Output/FG 2122 VDC (1x MOPP)
Temperature range	-20...+80 °C
Safety / EMC	IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE
Chassis information	Open Frame with chassis
Dimension (W x D x H)	62.0 x 117.0 x 40.0 mm
3-Years-Warranty	✔
Article No.	BEO-2012MC +12 V / 16.6 A
Output voltage	BEO-2024MC +24 V / 8.3 A
	BEO-2048MC +48 V / 4.1 A
	For all models: +12 V _{fan} / 0.5 A

+ ACCESSORIES

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POWER SUPPLIES

MEDICAL | AC/DC | 40–500 Watt



➤	BEO-3000M 300 Watt	BEO-3000MC 300 Watt
Key Features	<ul style="list-style-type: none"> ✓ 250W continuous fanless power ✓ Very compact design 3 x 5" ✓ Adjustable output voltage ✓ Remote sense function ✓ PS on/off Remote Control ✓ Low Standby consumption: <0.3 W ✓ Wide temperature range -40...+70 °C 	<ul style="list-style-type: none"> ✓ 300 W continuous fanless power ✓ High power density (PCB 3 x 5") ✓ Adjustable output voltage ✓ Remote sense function ✓ PS on/off Remote Control ✓ Low Standby consumption: <0.3 W ✓ Wide temperature range -40...+70 °C
Type	AC/DC, Open Frame	AC/DC, Open Frame with chassis
Input voltage	90...264 V AC (100...240 V AC nominal), active PFC	90...264 V AC (100...240 V AC nominal), active PFC
Efficiency	92.5...94 % depending on model	92.5...94 % depending on model
Fanless power	250 Watt	300 Watt
Insulation voltage	Input/Output 6516 VDC (2x MOPP) Input/FG 2122 VDC Output/FG 2122 VDC	Input/Output 6516 VDC (2x MOPP) Input/FG 2122 VDC Output/FG 2122 VDC
Temperature range	-40...+70 °C	-40...+70 °C
Safety / EMC	IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE	IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE
Chassis information	Open Frame	Open Frame with chassis
Dimension (W x D x H)	76.2 x 127 x 35 mm	88.0 x 136.0 x 40.4 mm
3-Years-Warranty	✓	✓
Article No. Output voltage	BEO-3012M +12 V / 25.0 A BEO-3024M +24 V / 12.5 A BEO-3036M +36 V / 8.3 A BEO-3048M +48 V / 6.2 A For all models: +5 V _{sb} / 1.0 A +12 V _{fan} / 0.5 A	BEO-3012MC +12 V / 25.0 A BEO-3024MC +24 V / 12.5 A BEO-3036MC +36 V / 8.3 A BEO-3048MC +48 V / 6.2 A For all models: +5 V _{sb} / 1.0 A +12 V _{fan} / 0.5 A

- Medical Applications
- Pharmacy
- Laboratory
- Healthcare
- Dental



➤ VERTICAL MARKETS

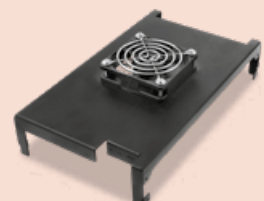


➤	BEO-5000M 500 Watt
Key Features	<ul style="list-style-type: none"> ✔ High insulation voltages ✔ With Power-Good signal and Remote Control ✔ Integrated Current-Share function ✔ Wide temperature range 0...+70 °C ✔ International safety approvals
Type	AC/DC, Open Frame
Input voltage	90...264 V AC, active PFC
Efficiency	87...91 % depending on model
Fanless power	500 Watt
Insulation voltage	Input/Output 4500 VAC (2x MOPP) Input/FG 1500 VAC (1x MOPP) Output/FG 1750 VAC (1x MOPP)
Temperature range	0...+70 °C
Safety / EMC	EN/UL62368-1, IEC60601-1:2005 (3rd Edition), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition), CE
Chassis information	Open Frame with U-chassis
Dimension (W x D x H)	118.5 x 203.2 x 42.0 mm
3-Years-Warranty	✔
Article No.	BEO-5012M +12V / 41.6A
Output voltage	BEO-5024M +24V / 20.8A
	BEO-5030M +30V / 16.6A
	BEO-5036M +36V / 13.85A
	BEO-5048M +48V / 10.4A
	For all models: +5 V _{sb} / 1 A
	+12 V _{fan} / 1 A

+ ACCESSORIES

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DESKTOP ADAPTERS

MEDICAL | AC/DC | 60–160 Watt



	BET-0600M 60 Watt	BET-1000M 100 Watt
Key Features	<ul style="list-style-type: none"> ✓ Desktop adapter for medical applications ✓ Class 2 equipment – without PE ✓ Compliant with ErP and CEC level V ✓ Wide temperature range up to +60 °C 	<ul style="list-style-type: none"> ✓ Desktop adapter for medical applications ✓ Class 2 equipment – without PE ✓ Compliant with ErP and CEC level V ✓ Wide temperature range up to +60 °C
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥87 %	88...89 %
Fanless power	60 Watt	100 Watt
Insulation voltage	Input/Output 6964 VDC (2x MOPP)	Input/Output 4675 VAC (2x MOPP)
Temperature range	-20...+60 °C	-20...+60 °C
Safety / EMC	Designed according to CCC, CE, CB, IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)	CE, CB, IEC60601-1:2005 (3rd Edition), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	60.0 x 119.0 x 36.0 mm	58.0 x 142.0 x 37.0 mm
3-Years-Warranty	✓	✓
Article No.	BET-0612M	BET-1012M
Output voltage	+12 V / 5.0 A	+12 V / 8.3 A
	BET-0619M	BET-1015M
	+19 V / 3.4 A	+15 V / 6.6 A
	BET-0624M	BET-1019M
	+24 V / 2.7 A	+19 V / 5.2 A
		BET-1024M
		+24 V / 4.1 A
		BET-1048M
		+48 V / 2.1 A

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



>	BET-1600M 160 Watt
Key Features	<ul style="list-style-type: none"> ✔ Desktop adapter for medical applications ✔ High efficiency ✔ Compliant with ErP and CEC level V ✔ Wide temperature range up to +60 °C
Type	AC/DC, Desktop adapter
Input voltage	90...264 V AC
Efficiency	89...91 %
Fanless power	160 Watt
Insulation voltage	Input/Output 6067 VDC (2x MOPP) Input/FG 2327 VDC (1x MOPP)
Temperature range	0...+60 °C
Safety / EMC	CE, CB, IEC60601-1:2005+A1:2012 (Edition 3.1), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)
Chassis information	Entirely closed plastic case
Dimension (W x D x H)	81.0 x 183.2 x 42.3 mm
3-Years-Warranty	✔
Article No.	BET-1612M +12 V / 12.5 A
Output voltage	BET-1619M +19 V / 8.4 A
	BET-1624M +24 V / 6.6 A
	BET-1648M +48 V / 3.3 A

+ ACCESSORIES

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DESKTOP ADAPTERS

MEDICAL | AC/DC | 36–300 Watt



	ATM036T 36 Watt	ATM200T 200 Watt
Key Features	<ul style="list-style-type: none"> ✓ Desktop adapter for medical applications ✓ IEC/EN/UL 60601-1 (Ed. 3.1) ✓ Meets CEC DoE Level VI ✓ Means of Protection 2x MOPP ✓ No load power consumption <0.075W ✓ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✓ Desktop adapter for medical applications ✓ IEC/EN/UL 60601-1 (Ed. 3.1) ✓ Meets CEC DoE Level VI ✓ Means of Protection 2x MOPP ✓ No load power consumption <0.15W ✓ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	84...87.4%	≥88%
Fanless power	36 Watt	200 Watt
Insulation voltage	Input/Output 5656 VDC (2x MOPP) Input/FG 2000 VAC (1x MOPP)	Input/Output 5656 VDC (2x MOPP) Input/FG 2000 VAC (1x MOPP)
Temperature range	0...+40°C	0...+40°C
Safety / EMC	CB, CE, IEC/EN/ANSI/AAMI ES60601-1 (Ed. 3.1), PSE, JET, FCC, EMC IEC60601-1-2:2014 (ED. 4.0)	CB, CE, IEC/EN/ANSI/AAMI ES60601-1 (Ed. 3.1), PSE, JET, FCC, EMC IEC60601-1-2:2014 (ED. 4.0)
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	C14: 50.0 x 100.0 x 33.0 mm C8: 50.0 x 99.0 x 33.0 mm	81.0 x 204.0 x 42.5 mm
3-Years-Warranty		
Article No.	ATM036T-X050 +5 V / 5.0 A	ATM200T-X120 +12 V / 16.0 A
Output voltage	ATM036T-X120 +12 V / 3.0 A	ATM200T-X190 +19 V / 10.5 A
	ATM036T-X240 +24 V / 1.5 A	ATM200T-X240 +24 V / 8.3 A
		ATM200T-X480 +48 V / 4.2 A

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



>	ATM250T 250 Watt	ATM300T 300 Watt
Key Features	<ul style="list-style-type: none"> ✔ Desktop adapter for medical applications ✔ IEC/EN/UL 60601-1 (Ed. 3.1) ✔ Meets CEC DoE Level VI ✔ Means of Protection 2x MOPP ✔ No load power consumption <0.15W ✔ Regulated output with low ripple noise 	<ul style="list-style-type: none"> ✔ Desktop adapter for medical applications ✔ IEC/EN/UL 60601-1 (Ed. 3.1) ✔ Meets CEC DoE Level VI ✔ Means of Protection 2x MOPP ✔ No load power consumption <0.5W ✔ Regulated output with low ripple noise
Type	AC/DC, Desktop adapter	AC/DC, Desktop adapter
Input voltage	90...264 VAC	90...264 VAC
Efficiency	≥89%	≥88%
Fanless power	250 Watt	300 Watt
Insulation voltage	Input/Output 5656 VDC (2x MOPP) Input/FG 2000 VAC (1x MOPP)	Input/Output 5656 VDC (2x MOPP) Input/FG 2000 VAC (1x MOPP)
Temperature range	0...+40°C	0...+40°C
Safety / EMC	CB, CE, IEC/EN/ANSI/AAMI ES60601-1 (Ed. 3.1), FCC, EMC IEC60601-1-2:2014 (ED. 4.0)	CB, CE, IEC/EN/ANSI/AAMI ES60601-1 (Ed. 3.1), PSE, JET, FCC, EMC IEC60601-1-2:2014 (ED. 4.0)
Chassis information	Entirely closed plastic case	Entirely closed plastic case
Dimension (W x D x H)	94.0 x 204.0 x 43.5 mm	116.0 x 254.0 x 47.0 mm
3-Years-Warranty		
Article No.	ATM250T-X120 +12 V / 20.0 A	ATM300T-X120 +12 V / 25.0 A
Output voltage	ATM250T-X190 +19 V / 13.15 A	ATM300T-X240 +24 V / 12.5 A
	ATM250T-X240 +24 V / 10.4 A	ATM300T-X480 +48 V / 6.25 A
	ATM250T-X480 +48 V / 5.21 A	



PC POWER SUPPLIES

MEDICAL | AC/DC | 300–600 Watt



	MP1S-5300V-B1 300 Watt	MP1S-6400V-B1 400 Watt																																							
Key Features	<ul style="list-style-type: none"> ✓ Compact design ✓ TÜV approval up to +50 °C ✓ Silent due to fan regulation ✓ International medical safety approvals 	<ul style="list-style-type: none"> ✓ Additional +24 VDC output ✓ Ideal for applications with large monitors ✓ Active PFC ✓ High efficiency of 84% ✓ Medical safety 																																							
Type	AC/DC, FlexATX	AC/DC, 1 HE ATX + 24V																																							
Input voltage	90...264 VAC active PFC	90...264 VAC																																							
Efficiency	80...84 % (115 VAC, full load)	84%																																							
Temperature range	0...+50 °C	0...+40 °C																																							
Safety / EMC	CCC, CE, IEC60601-1:2005+A1 (Edition 3.1), EN60601-1:2006+A11+A1+A12 (Edition 3.1), ANSI/AAMI ES60601-1 (Edition 3.1)	CE, EN/UL60601-1 (Edition 3.1)																																							
Dimension (W x D x H)	81.5 x 190.0 x 40.3 mm	81.5 x 250.0 x 40.3 mm																																							
3-Years-Warranty																																									
Output voltages	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>17.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>18.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>24.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.3 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>2.5 A</td> </tr> </tbody> </table>		min	max	+3.3 V	0.0 A	17.0 A	+5 V	0.0 A	18.0 A	+12 V	0.0 A	24.0 A	-12 V	0.0 A	0.3 A	+5 V _{sb}	0.0 A	2.5 A	<table border="1"> <thead> <tr> <th></th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td>+24 V</td> <td>0.0 A</td> <td>6.0 A</td> </tr> <tr> <td>+3.3 V</td> <td>0.0 A</td> <td>10.0 A</td> </tr> <tr> <td>+5 V</td> <td>0.0 A</td> <td>12.0 A</td> </tr> <tr> <td>+12 V</td> <td>0.0 A</td> <td>16.0 A</td> </tr> <tr> <td>-12 V</td> <td>0.0 A</td> <td>0.3 A</td> </tr> <tr> <td>+5 V_{sb}</td> <td>0.0 A</td> <td>2.5 A</td> </tr> </tbody> </table>		min	max	+24 V	0.0 A	6.0 A	+3.3 V	0.0 A	10.0 A	+5 V	0.0 A	12.0 A	+12 V	0.0 A	16.0 A	-12 V	0.0 A	0.3 A	+5 V _{sb}	0.0 A	2.5 A
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+5 V _{sb}	0.0 A	2.5 A																																							

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



>	MPSM-5600V 600 Watt	
Key Features	<ul style="list-style-type: none"> ✔ Ideal for medical image processing ✔ International medical safety approvals ✔ No minimum load required 	
Type	AC/DC, ATX Large	
Input voltage	90...264 V AC, active PFC	
Efficiency	82...85 %	
Temperature range	0...+40 °C	
Safety / EMC	CE, IEC60601-1:2005+A1 (Edition 3.1), EN60601-1:2006+A11+A1+A12 (Edition 3.1), ANSI/AAMI ES60601-1 (Edition 3.1)	
Dimension (W x D x H)	150.0 x 160.0 x 86.0 mm	
3-Years-Warranty		
Output voltages	min	max
	+3.3 V	25.0 A
	+5 V	25.0 A
	+12 V	45.0 A
	-12 V	0.8 A
	+5 V _{sb}	3.5 A



PC POWER SUPPLIES

MEDICAL | AC/DC | 300–500 Watt



	MHG2-5300G-B1 300 Watt	MHG2-5400G-B1 400 Watt																																				
Key Features	<ul style="list-style-type: none"> ✓ Nickel plated PE plug Stäubli S6/15 for potential equalisation according to DIN 42801 ✓ Certified to EN / UL / cUL 60601-1, CCC ✓ Temperature range 0...+70 °C ✓ Efficiency >87 % ✓ Temp. regulated brand fan with tachometer signal ✓ Operating altitude 5000 m 	<ul style="list-style-type: none"> ✓ Nickel plated PE plug Stäubli S6/15 for potential equalisation according to DIN 42801 ✓ Certified to EN / UL / cUL 60601-1, CCC ✓ Temperature range 0...+70 °C ✓ Efficiency >87 % ✓ Temp. regulated brand fan with tachometer signal ✓ Operating altitude 5000 m 																																				
Type	AC/DC, ATX	AC/DC, ATX																																				
Input voltage	90...264 V AC, active PFC	90...264 V AC, active PFC																																				
Efficiency	>87%	>87%																																				
Temperature range	0...+70 °C	0...+70 °C																																				
Safety / EMC	TÜV (IEC/EN60601-1 Edition 3.1), cUL (UL60601-1), CE, CCC	TÜV (IEC/EN60601-1 Edition 3.1), cUL (UL60601-1), CE, CCC																																				
Dimension (W x D x H)	150.0 x 140.0 x 86.0 mm	150.0 x 140.0 x 86.0 mm																																				
3-Years-Warranty																																						
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	min	max																																				
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+12 V	0.0 A	25.0 A																																				
-12 V	0.0 A	0.5 A																																				
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-12 V	0.0 A	0.5 A																																				
+5 V _{sb}	0.0 A	3.0 A																																				

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > Dental



> VERTICAL MARKETS



>	MHG2-5500G-B1 500 Watt		
Key Features	<ul style="list-style-type: none"> ✓ Nickel plated PE plug Stäubli S6/15 for potential equalisation according to DIN 42801 ✓ Certified to EN / UL / cUL 60601-1, CCC ✓ Temperature range 0...+70°C ✓ Efficiency >87% ✓ Temp. regulated brand fan with tachometer signal ✓ Operating altitude 5000 m 		
Type	AC/DC, ATX		
Input voltage	90...264 VAC, active PFC		
Efficiency	>87%		
Temperature range	0...+70°C		
Safety / EMC	TÜV (IEC/EN60601-1 Edition 3.1), cUL (UL60601-1), CE, CCC		
Dimension (WxDxH)	150.0 x 140.0 x 86.0 mm		
3-Years-Warranty			
Output voltages		min	max
	+3.3 V	0.0 A	20.0 A
	+5 V	0.0 A	20.0 A
	+12 V	0.0 A	42.0 A
	-12 V	0.0 A	0.5 A
	+5 V _{sb}	0.0 A	3.0 A

+ SPECIAL FEATURE

All **MHG2-5X00G-B1** models are equipped with a PE plug **Stäubli S6/15**.



MDS SERIES

SPACE-SAVING. RELIABLE. FANLESS.

The **MDS series** offers a high energy density design for Type BF patient access medical products. With AC universal input, extended temperature range and altitudes of up to 5000 m, the design is well suited for a variety of both medical and non-medical applications. Other features include input surge of 300 V AC, low leakage current, no-load input power < 0.5 Watt and high MTBF. The compact convection cooled AC/DC power supplies are ideal for space-saving installation in medical devices and medical computer systems.

- ✓ **AC/DC PSU series for medical and industrial applications**
- ✓ **Fanless 3.5 x 5.5" PSU design with high power density**
- ✓ **Safety approvals to latest IEC 60601-1 and IEC 62368-1**
- ✓ **2x MOPP insulation and Type BF medical standard**
- ✓ **High reliability (MTBF up to 800,000 hrs)**
- ✓ **Wide temperature range -10...+70 °C**
- ✓ **High energy efficiency up to 94%**
- ✓ **5 V_{SB} output, Remote On/Off and Power Good signal**
- ✓ **Compliant with IEC 60601-1-2 4th Ed. & EN55032 / EN55011**
- ✓ **Designed for 24/7 continuous operation**
- ✓ **Long-term availability**



The medical power supplies of the MDS series are available **enclosed** and **open-frame** with **250 W, 300 W or 400 W** and nominal output voltages **12, 18, 24 or 28 V DC**.

For further information and data sheets please visit our website or contact us directly.

We advise you personally and on-site.



3 Years
★★★★★
Warranty

LONG-LIFE FANLESS DESIGN

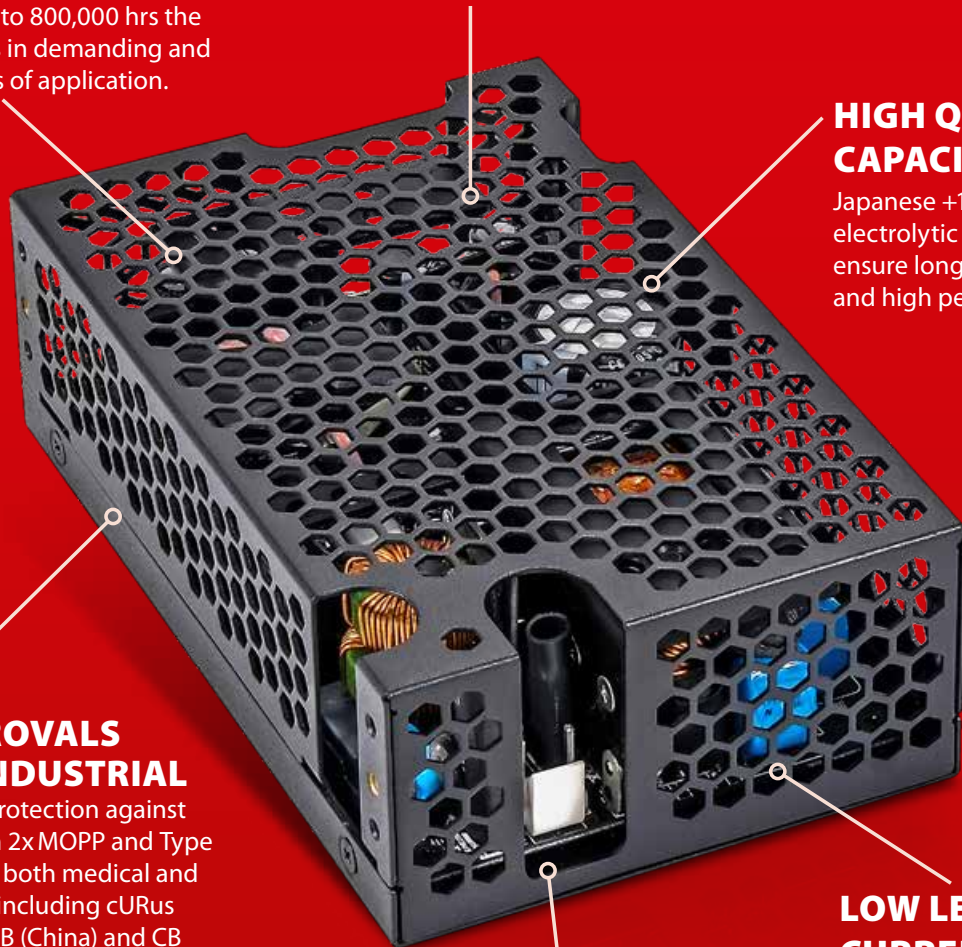
With a high MTBF up to 800,000 hrs the MDS series convinces in demanding and security-related fields of application.

ENHANCED FEATURES

The feature set includes a 5 V / 0.5 A standby output, remote on/off, remote sense and a Power Good signal.

HIGH QUALITY CAPACITORS

Japanese +105°C brand electrolytic capacitors ensure long service life and high performance.



SAFETY APPROVALS MEDICAL & INDUSTRIAL

The MDS series has protection against shock compliant with 2xMOPP and Type BF requirements, has both medical and ITE safety approvals, including cURus (US & Canada)/TÜV/GB (China) and CB certificates with all national deviations. Full compliance with RoHS Directive for environmental protection is included.

LOW LEAKAGE CURRENTS

Input-PE (protective earth) and Output-PE leakage is very low for Type BF grade medical devices.

UNIVERSAL AC INPUT

Switching PSU with wide-range AC input 90-264 VAC and active PFC (Power Factor Correction) enables worldwide use.



SERVICE & SUPPORT FOR DELTA PRODUCTS

Being a distribution partner of Delta, our experienced sales engineers advise you individually and in detail to find the best solution with the best price/performance ratio for your sepecific application. Our service team is at your disposal for all questions relating installation, settings, adjustments and technical support.



DELTA POWER SUPPLIES

MEDICAL | AC/DC



	DELTA MDS Open Frame Series 250–400 Watt	DELTA MDS Covered Series 250–400 Watt
Key Features	<ul style="list-style-type: none"> ✓ Up to 240 Watt convection in 3.0" x 5.0" x 1.4" package ✓ 2 x MOPP insulation ✓ Suited for type BF medical products ✓ Up to 800 000 h MTBF ✓ Operating altitude 5 000 meters ✓ Full power from -10...+50 °C 	<ul style="list-style-type: none"> ✓ Up to 240 Watt convection in 3.5" x 5.5" x 1.75" package ✓ 2 x MOPP insulation ✓ Suited for type BF medical products ✓ Up to 800 000 h MTBF ✓ Operating altitude 5 000 meters ✓ Full power from -10...+50 °C
Type	AC/DC Open frame Power Supply	AC/DC Open frame Power Supply with chassis
Input voltage	90...264 VAC	90...264 VAC
Efficiency	94% (230 VAC)	94% (230 VAC)
Fanless power	150–240 Watt	150–240 Watt
Insulation voltage	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC
Temperature range	-10...+70 °C	-10...+70 °C
Safety / EMC	IEC/EN/UL 60601-1 3.1 Ed. ; IEC/EN/UL 62368-1	IEC/EN/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1
Chassis information	Open frame	Enclosed Chassis for baseplate mounting
3-Years-Warranty		
Article No.	MDS-250APB12 AA +12 V / 20.84 A MDS-250APB24 AA +24 V / 10.41 A MDS-300APB12 AA +12 V / 25.00 A MDS-300APB18 AA +18 V / 16.66 A MDS-300APB24 AA +24 V / 12.50 A MDS-300APB48 AA +28 V / 6.25 A MDS-400APB12 AA +12 V / 33.33 A MDS-400APB24 AA +24 V / 16.66 A	MDS-250ADB12 AA +12 V / 20.84 A MDS-250ADB24 AA +24 V / 10.41 A MDS-300ADB12 AA +12 V / 25.00 A MDS-300ADB18 AA +18 V / 16.66 A MDS-300ADB24 AA +24 V / 12.50 A MDS-300ADB48 AA +48 V / 6.25 A MDS-400ADB12 AA +12 V / 33.33 A MDS-400ADB24 AA +24 V / 16.67 A
Output voltage		

- > Medical Applications
- > Pharmacy
- > Laboratory
- > Healthcare
- > High Power Laser



> VERTICAL MARKETS



>	DELTA MEB Series 504–1200 Watt	DELTA IMA Series 400–2000 Watt
Key Features	<ul style="list-style-type: none"> ✓ Up to 1200 Watt ✓ Full power from 90...264 VAC, up to +50 °C ✓ Up to 500 000 h MTBF ✓ 2x MOPP insulation ✓ Suited for type BF medical products ✓ 5 V / 2 A standby output ✓ Intelligent fan speed control 	<ul style="list-style-type: none"> ✓ ITE and MED safety certification ✓ Wide adjustable output voltage range ✓ 5 VDC standby output ✓ High efficiency up to 94 % ✓ Low acoustic noise level ✓ 2x MOPP
Type	AC/DC enclosed PSU	AC/DC DC/DC 1 U enclosed PSU
Input voltage	85...264 VAC	80...275 VAC / 120...300 VDC
Efficiency	Up to 91.5 % (full load)	94 % (230 VAC)
Fanless power	N/A	N/A
Insulation voltage	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC	Input/Output 4000 VAC Input/FG 1500 VAC Output/FG 1500 VAC
Temperature range	-20...+70 °C	-20...+70 °C
Safety / EMC	IEC/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1	IEC/UL 60601-1 3.1 Ed., IEC/EN/UL 62368-1
Chassis information	Metal housing	Metal housing
3-Years-Warranty		
Article No.	MEB-500A24F +24 V / 21.0 A MEB-750A24B +24 V / 31.25 A MEB-1K2A24 +24 V / 50.0 A MEB-1K2A42 +42 V / 28.5 A MEB-750A48B +48 V / 15.63 A MEB-1K2A48 +48 V / 25.0 A	IMA-S400-12 +12 V / 33.3 A IMA-S400-24 +24 V / 16.7 A IMA-S400-48 +48 V / 8.3 A IMA-S600-12 +12 V / 50.0 A IMA-S600-24 +24 V / 25.0 A IMA-S600-48 +48 V / 12.5 A IMA-S1000-12 +12 V / 84.0 A IMA-S1000-24 +24 V / 42.0 A IMA-S1000-48 +48 V / 21.0 A IMA-S2000-48 +48 V / 41.6 A
Output voltage		



DELTA POWER SUPPLIES

MEDICAL | AC/DC



➤	DELTA MEG-A Configurable Series 700–2100 Watt	
Key Features	<ul style="list-style-type: none"> ✓ 3/4/6 outputs selectable from 2...60V ✓ PC GUI for easy parameter setting and monitoring ✓ 2x MOPP insulation for medical application ✓ ITE and MED safety certification ✓ Class B conducted and radiated EMI ✓ Up to 500 000 h MTBF 	
Type	AC/DC enclosed PSU	
Input voltage	90...264 V AC	
Efficiency	93% (230 V AC)	
Fanless power	700–2100 Watt	
Insulation voltage	Input/Output 4000 V AC Input/FG 1500 V AC Output/FG 500 V AC	
Temperature range	-20...+70 °C	
Safety / EMC	IEC/UL/CSA 62368-1, IEC/UL/CSA 60601-1	
Chassis information	SGCC	
3-Years-Warranty		
Article No.	MEG-700A3	2 V...60 V (3 outputs)
Output voltage	MEG-1K2A4	2 V...60 V (4 outputs)
	MEG-2K1A6	2 V...60 V (6 outputs)

- Medical Applications
- Pharmacy
- Laboratory
- Healthcare
- High Power Laser



BDC | BDCD SERIES

DC/DC MODULES FOR FLEXIBLE MOUNTING

The very compact DC/DC converter modules are fully encapsulated and equipped with high quality components. The **BDC modules** are for direct PCB print mounting. The **BDCD modules**, with a detachable DIN-Rail plate, are available for chassis and DIN-Rail mounting. The robust built modules are ideal for **cost-effective and space-saving power supply** of a variety of applications.

- ✓ **Compact DC/DC converter modules 10–50 Watt**
- ✓ **Available with +5 V, +12 V or +24 V output**
- ✓ **Input / Output galvanically insulated**
- ✓ **Fully encapsulated modules in metal case**
- ✓ **PCB print, chassis and DIN-Rail mounting**
- ✓ **High-quality ceramic capacitors**
- ✓ **Extended temperature range**
- ✓ **High efficiency**
- ✓ **Remote On / Off function**
- ✓ **Reliable 24/7 continuous operation**
- ✓ **Long-term availability**
- ✓ **3 years warranty**



PCB mounting
BDC module



The modules are available with **various output voltages**. For further information and data sheets please visit our website or contact us directly.

3 Years
★★★★★
Warranty



DIN-Rail mounting
BDCD module



Chassis mounting
BDCD module

QUICK & SAFE INSTALLATION

Control cabinet installation
with the **already included**
DIN-Rail Mounting Kit



Beside the simple chassis assembly
with four screws, the BDCD modules
can be mounted on a standard DIN-
Rail with the DIN-Rail Mounting Kit.



PRINT MOUNTING

DC/DC | 10–30 Watt



	BDC-10VC 10 Watt	BDC-10CT 10 Watt
Key Features	<ul style="list-style-type: none"> ✓ 4:1 input voltage range ✓ Input / Output galvanically insulated ✓ Compact fully encapsulated modules in metal case ✓ High efficiency up to 88 % ✓ Extended temperature range -40...+85 °C ✓ Insulation voltage 1500 VDC 	<ul style="list-style-type: none"> ✓ 4:1 input voltage range ✓ Input / Output galvanically insulated ✓ Compact fully encapsulated modules in metal case ✓ High efficiency up to 88 % ✓ Extended temperature range -40...+85 °C ✓ Insulation voltage 1500 VDC
Type	DC/DC, Encapsulated modules	DC/DC, Encapsulated modules
Input voltage	9...36 VDC (24 VDC nom.)	18...75 VDC (48 VDC nom.)
Efficiency	83...88 % depending on model	83...88 % depending on model
Temperature range	-40...+85 °C	-40...+85 °C
Dimension (W x D x H)	25.4 x 25.4 x 11.7 mm	25.4 x 25.4 x 11.7 mm
3-Years-Warranty	✓	✓
Article No.	BDC-1005VC +5 V / 2.0 A	BDC-1005CT +5 V / 2.0 A
Output voltage	BDC-1012VC +12 V / 0.833 A	BDC-1012CT +12 V / 0.833 A
	BDC-1024VC +24 V / 0.416 A	BDC-1024CT +24 V / 0.416 A

- Industrial Automation
- Robotics
- Transportation
- Embedded Systems
- Telecommunication



> VERTICAL MARKETS

NEW!



➤	BDC-12-12-VT 12 Watt
Key Features	<ul style="list-style-type: none"> ✔ Ultra-wide 10:1 input voltage range ✔ Input / Output galvanically insulated ✔ Compact fully encapsulated modules in metal case ✔ Extended temperature range -45...+115 °C ✔ Insulation voltage 1600 VDC
Type	DC/DC, Encapsulated modules
Input voltage	6...60 VDC
Efficiency	85 %
Temperature range	-45...+115 °C
Dimension (W x D x H)	25.4 x 25.4 x 12.7 mm
3-Years-Warranty	✔
Article No.	BDC-12-12-VT +12 V / 1.0 A
Output voltage	

⊕ ACCESSORIES

For your industrial DC/DC converter we will be glad to supply appropriate accessories such as cables, adapters and much more.

To obtain an overall view of our portfolio please visit our website www.bicker.de.



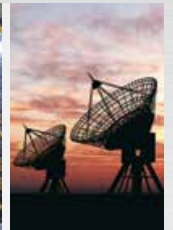
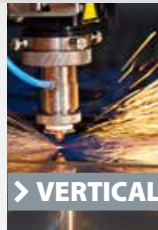
PRINT MOUNTING

DC/DC | 10–30 Watt



	BDC-30VC 30 Watt	BDC-30CT 30 Watt
Key Features	<ul style="list-style-type: none"> ✓ 4:1 input voltage range ✓ Input / Output galvanically insulated ✓ Compact fully encapsulated modules in metal case ✓ High efficiency up to 90 % ✓ Extended temperature range -40...+75 °C ✓ Insulation voltage 1500 VDC 	<ul style="list-style-type: none"> ✓ 4:1 input voltage range ✓ Input / Output galvanically insulated ✓ Compact fully encapsulated modules in metal case ✓ High efficiency up to 90 % ✓ Extended temperature range -40...+75 °C ✓ Insulation voltage 1500 VDC
Type	DC/DC, Encapsulated modules	DC/DC, Encapsulated modules
Input voltage	9...36 VDC (24 VDC nom.)	18...75 VDC (48 VDC nom.)
Efficiency	88...90 % depending on model	88...90 % depending on model
Temperature range	-40...+75 °C	-40...+75 °C
Dimension (W x D x H)	50.8 x 25.4 x 11.8 mm	50.8 x 25.4 x 11.8 mm
3-Years-Warranty	✓	✓
Article No.	BDC-3005VC +5 V / 6.0 A	BDC-3005CT +5 V / 6.0 A
Output voltage	BDC-3012VC +12 V / 2.5 A	BDC-3012CT +12 V / 2.5 A
	BDC-3024VC +24 V / 1.25 A	BDC-3024CT +24 V / 1.25 A

- › Industrial Automation
- › Robotics
- › Transportation
- › Embedded Systems
- › Telecommunication



> VERTICAL MARKETS

ACCESSORIES

For your industrial DC/DC converter we will be glad to supply appropriate accessories such as cables, adapters and much more.

To obtain an overall view of our portfolio please visit our website www.bicker.de.



DIN-RAIL / CHASSIS MOUNTING

DC/DC | 10–30 Watt



➤	BDCD-10VC 10 Watt	BDCD-10CT 10 Watt
Key Features	<ul style="list-style-type: none"> ✔ 4:1 input voltage range ✔ Input / Output galvanically insulated ✔ Fully encapsulated modules in metal case for chassis and DIN-Rail mounting ✔ High efficiency up to 88 % ✔ Extended temperature range -40...+85 °C ✔ Insulation voltage 1500 VDC 	<ul style="list-style-type: none"> ✔ 4:1 input voltage range ✔ Input / Output galvanically insulated ✔ Fully encapsulated modules in metal case for chassis and DIN-Rail mounting ✔ High efficiency up to 88 % ✔ Extended temperature range -40...+85 °C ✔ Insulation voltage 1500 VDC
Type	DC/DC, Encapsulated modules	DC/DC, Encapsulated modules
Input voltage	9...36 VDC (24 VDC nom.)	18...75 VDC (48 VDC nom.)
Efficiency	83...88 % depending on model	83...88 % depending on model
Temperature range	-40...+85 °C	-40...+85 °C
Dimension (W x D x H)	76.0 x 31.5 x 25.8 mm	76.0 x 31.5 x 25.8 mm
3-Years-Warranty	✔	✔
Article No. Output voltage	BDCD-1005VC +5 V / 2.0 A BDCD-1012VC +12 V / 0.833 A BDCD-1024VC +24 V / 0.416 A	BDCD-1005CT +5 V / 2.0 A BDCD-1012CT +12 V / 0.833 A BDCD-1024CT +24 V / 0.416 A

- Industrial Automation
- Robotics
- Transportation
- Embedded Systems
- Chemical Industry



> VERTICAL MARKETS



➤	BDCD-30VC 30 Watt	BDCD-30CT 30 Watt
Key Features	<ul style="list-style-type: none"> ✔ 4:1 input voltage range ✔ Input / Output galvanically insulated ✔ Fully encapsulated modules in metal case for chassis and DIN-Rail mounting ✔ High efficiency up to 90 % ✔ Extended temperature range -40...+75 °C ✔ Insulation voltage 1500 VDC 	<ul style="list-style-type: none"> ✔ 4:1 input voltage range ✔ Input / Output galvanically insulated ✔ Fully encapsulated modules in metal case for chassis and DIN-Rail mounting ✔ High efficiency up to 90 % ✔ Extended temperature range -40...+75 °C ✔ Insulation voltage 1500 VDC
Type	DC/DC, Encapsulated modules	DC/DC, Encapsulated modules
Input voltage	9...36 VDC (24 VDC nom.)	18...75 VDC (48 VDC nom.)
Efficiency	88...90 % depending on model	88...90 % depending on model
Temperature range	-40...+75 °C	-40...+75 °C
Dimension (W x D x H)	76.0 x 31.5 x 25.8 mm	76.0 x 31.5 x 25.8 mm
3-Years-Warranty	✔	✔
Article No.	BDCD-3005VC +5 V / 6.0 A	BDCD-3005CT +5 V / 6.0 A
Output voltage	BDCD-3012VC +12 V / 2.5 A	BDCD-3012CT +12 V / 2.5 A
	BDCD-3024VC +24 V / 1.25 A	BDCD-3024CT +24 V / 1.25 A



CIRCUIT BOARD

DC/DC | 100–160 Watt



	BEC-101 100 Watt	DC1224 100 Watt
Key Features	<ul style="list-style-type: none"> ✓ Widerange input 10...36 VDC ✓ Galvanically insulated ✓ Operating temperature -20...+80 °C ✓ Two-stage EMI filter 	<ul style="list-style-type: none"> ✓ DC/DC converter 12 V to 24 V ✓ Very small size ✓ Chassis for electric shock protection and heat dissipation
Type	DC/DC, Circuit Board	DC/DC, Open frame
Input voltage	10...36 VDC	11.2...13.4 VDC (12 VDC nom.)
Efficiency	App. 88 % (BEC-101-12VCF) App. 87 % (BEC-101-24VCF)	91...94 % (at nominal load)
Temperature range	-20...+80 °C	-10...+60 °C
Dimension (W x D x H)	97.5 x 86.0 x 30.0 mm	31.2 x 99.0 x 20.0 mm
3-Years-Warranty	✓	✓
Article No.	BEC-101-12VCF +12 V / 8.2 A	DC1224 +24 V / 4.1 A
Output voltage	BEC-101-24VCF +24 V / 4.1 A	

- Industrial Automation
- Robotics
- Embedded Systems
- Mobile Applications
- Energy and Communication



> VERTICAL MARKETS



➤	DC2400 110 Watt	DC160WS 160 Watt
Key Features	<ul style="list-style-type: none"> ✔ DC/DC converter 24 V to 12 V or 19 V respectively ✔ Wide range ✔ High efficiency up to 94 % 	<ul style="list-style-type: none"> ✔ 160 W continuous power ✔ Ultra wide input range 6...36 VDC ✔ Selectable output voltage 12, 19 or 24 V via jumper ✔ Extended temperature range -20...+70 °C ✔ High efficiency up to 98 % ✔ Compact design
Type	DC/DC, Circuit Board	DC/DC, Circuit Board
Input voltage	DC2412: 18...30 VDC DC2419: 20.5...30 VDC	6...36 VDC (24 VDC nom.)
Efficiency	89...94 %	Up to 98 %
Temperature range	-10...+70 °C	-20...+70 °C
Dimension (W x D x H)	44.5 x 79.0 x 18.0 mm	95.0 x 45.0 x 25.4 mm
3-Years-Warranty	✔	✔
Article No.	DC2412 +12 V / 9.3 A DC2419 +19 V / 4.7 A	DC160WS +12 V / 13.3 A (delivery setting) +19 V / 8.4 A +24 V / 6.6 A
Output voltage		Output selectable via jumper



UPSI SYSTEM

MODULAR DC UPS SOLUTION – MADE IN GERMANY

Our **particularly reliable and well featured UPSI system** with latest battery technologies ensures the **uninterruptible power supply** of sensitive and process-relevant control modules, gateways, embedded computers, actuators, sensors, motors, industrial and medical devices. Voltage fluctuations, flicker or failures of 12 V / 24 V DC mains often cause fatal consequences for critical applications. The UPSI system offers **maximum safety** for your business.

- ✓ **Supercaps, LiFePO4, Li-Ion and lead energy packs**
- ✓ **Modular DC UPS system for uninterruptible power supply**
- ✓ **Intelligent input power sharing (battery charger / output load)**
- ✓ **Regulated output voltage at backup**
- ✓ **Battery start, disconnect and hot swap functions**
- ✓ **Reboot function**
- ✓ **Min. load disconnect**
- ✓ **Battery relax mode for lifetime extension**
- ✓ **Integrated communication interfaces USB, RS232, I²C, HID**
- ✓ **Extended temperature range**
- ✓ **Reliable 24/7 continuous operation**
- ✓ **Long-term availability**
- ✓ **3 years warranty**



For **special adaptations and modifications** of the hardware or software our development engineers and technicians are at your disposal. For further information and data sheets please visit our website or contact us directly.



12V / 24V
VERSIONS AVAILABLE

UPSI-D MODULAR DC UPS SYSTEM FOR DIN-RAIL

High-quality DIN-Rail versions with robust aluminium housing and snap-on mounting for quick installation in control cabinets. Similar to open-frame versions, charge and control unit (**UPSI-D**) with DIN-Rail energy packs based on LiFePO4 cells (**BP-LFP-D**) and Supercaps (**BP-SUC-D**) are available.

BP-LFP-D
LiFePO4 CELLS
ENERGY PACK

BP-SUC-D
SUPERCAPS
ENERGY PACK

UPSI-D
DC UPS
CONTROL UNIT



BP-LFP
LiFePO4 CELLS

Durable and safe battery technology based on lithium iron phosphate with high energy density for long backup times and reliable operation.



BP-SUC
SUPERCAPS

Energy packs with supercapacitors are characterized by fast charging, high power density and particularly long service life in extreme environments.



UPSI
DC UPS CONTROL UNIT

Well-featured UPS system electronics for multiple battery technologies and flexible use in a variety of demanding applications.

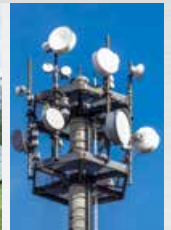
DC UPS 12 V & 24 V

Uninterruptible Power Supply



	UPSI-1208 12 VDC / 8 A	UPSI-1208D 12 VDC / 8 A
Key Features	<ul style="list-style-type: none"> ✓ Intelligent power sharing ✓ Regulated output voltage at backup ✓ Min. load disconnect ✓ Battery disconnect ✓ Battery start function ✓ External signal shutdown ✓ Reboot function 	<ul style="list-style-type: none"> ✓ Intelligent power sharing ✓ Regulated output voltage at backup ✓ Min. load disconnect ✓ Battery disconnect ✓ Battery start function ✓ External signal shutdown ✓ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	12 VDC (11.5...16 V)	12 VDC (11.5...16 V)
Temperature range	Operating: -20...+70 °C / Storage: -20...+70 °C	Operating: -20...+70 °C / Storage: -20...+70 °C
Interface	USB, RS232, USB-HID	USB, RS232, USB-HID
Storage mediums	BP-LFP-1025 / BP-SUC-1011 / BP-SUC-1020 / BP-SUC-1033 / BP-SUC-10066	BP-LFP-1025D / BP-SUC-1011D / BP-SUC-1020D / BP-SUC-1033D / BP-SUC-10066D
Dimension (W x D x H)	105.0 x 68.0 x 17.0 mm	36.0 x 100.0 x 120.0 mm
3-Years-Warranty	✓	✓
Article No.	UPSI-1208	UPSI-1208D
Output voltage	Normal mode $V_{in} - 0.3V$ (@ full load) / 8 A Battery mode +12 V / 8 A max.	Normal mode $V_{in} - 0.3V$ (@ full load) / 8 A Battery mode +12 V / 8 A max.

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



➤ VERTICAL MARKETS



➤	UPSI-2406 24 VDC / 6 A	UPSI-2406D 24 VDC / 6 A
Key Features	<ul style="list-style-type: none"> ✔ Intelligent power sharing ✔ Regulated output voltage at backup ✔ Min. load disconnect ✔ Battery disconnect ✔ Battery start function ✔ External signal shutdown ✔ Reboot function 	<ul style="list-style-type: none"> ✔ Intelligent power sharing ✔ Regulated output voltage at backup ✔ Min. load disconnect ✔ Battery disconnect ✔ Battery start function ✔ External signal shutdown ✔ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	24 VDC (22.5...29 V)	24 VDC (22.5...29 V)
Temperature range	Operating: -20...+70 °C / Storage: -20...+70 °C	Operating: -20...+70 °C / Storage: -20...+70 °C
Interface	USB, RS232, USB-HID	USB, RS232, USB-HID
Storage mediums	BP-LFP-1325 / BP-LFP-1375 / BP-SUC-1615 / BP-SUC-1645 / BP-SUC-2120 / BP-SUC-16090	BP-LFP-1325D / BP-LFP-1375D / BP-SUC-1615D / BP-SUC-1645D / BP-SUC-2120D / BP-SUC-16090D
Dimension (W x D x H)	105.0 x 68.0 x 17.0 mm	36.0 x 100.0 x 120.0 mm
3-Years-Warranty	✔	✔
Article No.	UPSI-2406	UPSI-2406D
Output voltage	Normal mode $V_{in} - 0.3V$ (@ full load) / 6 A Battery mode +23.5 V / 6 A max.	Normal mode $V_{in} - 0.3V$ (@ full load) / 6 A Battery mode +23.5 V / 6 A max.



DC UPS 24V

Uninterruptible Power Supply

NEW!

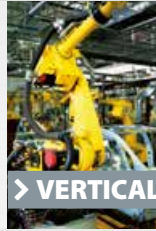


NEW!



	UPSI-2412 24 VDC / 12 A	UPSI-2412D 24 VDC / 12 A
Key Features	<ul style="list-style-type: none"> ✓ Powerful 12 A circuit board ✓ Intelligent power sharing ✓ Regulated output voltage at backup ✓ Min. load disconnect ✓ Battery start function ✓ External signal shutdown ✓ Reboot function 	<ul style="list-style-type: none"> ✓ Powerful 12 A DIN Rail version ✓ Intelligent power sharing ✓ Regulated output voltage at backup ✓ Min. load disconnect ✓ Battery start function ✓ External signal shutdown ✓ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	24 VDC (22.5...30 V)	24 VDC (22.5...30 V)
Temperature range	Operating: -20...+70 °C / Storage: -20...+70 °C	Operating: -20...+70 °C / Storage: -20...+70 °C
Interface	USB, RS232, USB-HID	USB, RS232, USB-HID
Storage mediums	BP-SUC-30090 / BP-LFP-2725	BP-SUC-30090D / BP-LFP-2725D
Dimension (W x D x H)	137.0 x 98.0 x 20.0 mm	36.0 x 103.0 x 147.0 mm
3-Years-Warranty	✓	✓
Article No.	UPSI-2412	UPSI-2412D
Output voltage	Normal mode $V_{in} - 0.5V$ (@ full load) / 10 A (12 A <2s) Battery mode +24 V / 10 A (12 A <2s)	Normal mode $V_{in} - 0.5V$ (@ full load) / 10 A (12 A <2s) Battery mode +24 V / 10 A (12 A <2s)

- › Industrial Automation
- › Renewable Energy
- › Energy and Communication
- › Transportation and Logistics
- › Cellular infrastructure



› VERTICAL MARKETS



LiFePO4 BATTERY PACKS

Long-life and safe lithium iron phosphate cells

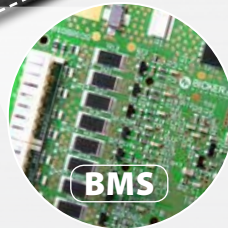
10-YEAR LONG-LIFE BATTERY TECHNOLOGY



BAT-PWR
Power connection

BAT-DATA & SYSTEM PRESENT
I²C data interface for communication and monitoring. Includes 'System Present (SP)' for controlled battery lock/unlock.

IEC 62133-2:2017
Battery safety approval



BATTERY MANAGEMENT SYSTEM

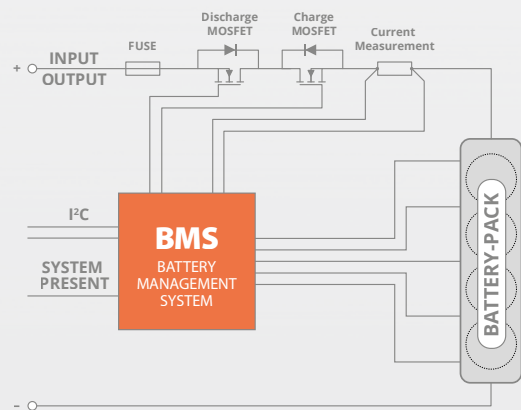
- ✓ Integrated high performance BMS
- ✓ Optimized charging algorithms
- ✓ Cell balancing extends lifetime
- ✓ Advanced safety functions
- ✓ Protection against deep discharge, overcurrent / overvoltage, short circuit and overcharging

LiFePO4 – HIGH ENERGY DENSITY

Intended for long-time buffering

- + Safe lithium iron phosphate cells
- + 10x more cycles than others Li-Ion cells*
- + Extended temperature range
- + 100% free of lead and cadmium
- + High performance BMS
- + Integrated cell balancing
- + Low Total Cost of Ownership (TCO)

*Compared to conventional Li-Ion battery cells LCO / NMC




- › Industrial Automation
- › Renewable Energy
- › Energy and Communication
- › Transportation and Logistics
- › Cellular infrastructure



› VERTICAL MARKETS




›	BP-LFP-1025 25 Wh	BP-LFP-1025D 25 Wh
Key Features	<ul style="list-style-type: none"> ✔ Storage medium for UPS systems ✔ Compact shrink tube version ✔ 10-year long-life battery ✔ Safe lithium iron phosphate cells ✔ Temperature range -20...+55 °C ✔ Integrated BMS with cell balancing 	<ul style="list-style-type: none"> ✔ Storage medium for UPS systems ✔ Robust DIN-Rail version ✔ 10-year long-life battery ✔ Safe lithium iron phosphate cells ✔ Temperature range -20...+55 °C ✔ Integrated BMS with cell balancing
Technology	LiFePO4	LiFePO4
Description	LiFePO4, 1p3s, 2.5 Ah, 9.9V _{nom} , 26650 25 Wh	LiFePO4, 1p3s, 2.5 Ah, 9.9V _{nom} , 26650 25 Wh
Temperature range charging	-20...+55 °C	-20...+55 °C
Temperature range backup	-20...+55 °C	-20...+55 °C
Dimension (WxDxH) approx.	~ 91.0 x 66.0 x 30.0 mm	45.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-LFP-1025 ~ 25 min @ 50W ~ 12 min @ 100W	BP-LFP-1025D ~ 25 min @ 50W ~ 12 min @ 100W
	<p>➕ Optional accessories</p>  <p>PSZ-1074 Mounting bracket for BP-LFP-1025/1325</p>	



LiFePO4 BATTERY PACKS

Long-life and safe lithium iron phosphate cells



	BP-LFP-1325 33 Wh	BP-LFP-1325D 33 Wh
Key Features	<ul style="list-style-type: none"> ✓ Storage medium for UPS systems ✓ Compact shrink tube version ✓ 10-year long-life battery ✓ Safe lithium iron phosphate cells ✓ Temperature range -20...+55 °C ✓ Integrated BMS with cell balancing 	<ul style="list-style-type: none"> ✓ Storage medium for UPS systems ✓ Robust DIN-Rail version ✓ 10-year long-life battery ✓ Safe lithium iron phosphate cells ✓ Temperature range -20...+55 °C ✓ Integrated BMS with cell balancing
Technology	LiFePO4	LiFePO4
Description	LiFePO4, 1p4s, 2.5 Ah, 13.2V _{nom} , 26650 33 Wh	LiFePO4, 1p4s, 2.5 Ah, 13.2V _{nom} , 26650 33 Wh
Temperature range charging	-20...+55 °C	-20...+55 °C
Temperature range backup	-20...+55 °C	-20...+55 °C
Dimension (WxDxH) approx.	~ 110.0 x 66.0 x 30.0 mm	45.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-LFP-1325 ~ 33 min @ 50W ~ 16 min @ 100W ~ 12 min @ 140W	BP-LFP-1325D ~ 33 min @ 50W ~ 16 min @ 100W ~ 12 min @ 140W
	<p>+ Optional accessories</p>  <p>PSZ-1074 Mounting bracket for BP-LFP-1025/1325</p>	

- › Industrial Automation
- › Renewable Energy
- › Energy and Communication
- › Transportation and Logistics
- › Cellular infrastructure




› VERTICAL MARKETS

NEW!



NEW!




›	BP-LFP-2725 64 Wh	BP-LFP-2725D 64 Wh
Key Features	<ul style="list-style-type: none"> ✔ Storage medium for UPS systems ✔ Compact shrink tube version ✔ 10-year long-life battery ✔ Safe lithium iron phosphate cells ✔ Temperature range -20...+55 °C ✔ Integrated BMS with cell balancing ✔ IEC 62133-2:2017 	<ul style="list-style-type: none"> ✔ Storage medium for UPS systems ✔ Robust DIN-Rail version ✔ 10-year long-life battery ✔ Safe lithium iron phosphate cells ✔ Temperature range -20...+55 °C ✔ Integrated BMS with cell balancing ✔ IEC 62133-2:2017
Technology	LiFePO4	LiFePO4
Description	LiFePO4, 8s1p, 2.5 Ah, 25.6 V _{nom} , 26650 64 Wh	LiFePO4, 8s1p, 2.5 Ah, 25.6 V _{nom} , 26650 64 Wh
Temperature range charging	-20...+55 °C	-20...+55 °C
Temperature range backup	-20...+55 °C	-20...+55 °C
Dimension (WxDxH) approx.	72.0 x 110.0 x 67.0 mm	99.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-LFP-2725 ~ 33 min @ 50 W ~ 16 min @ 100 W ~ 12 min @ 140 W	BP-LFP-2725D ~ 33 min @ 50 W ~ 16 min @ 100 W ~ 12 min @ 140 W
	+ Optional accessories  PSZ-1077 Mounting bracket for BP-LFP-2725	



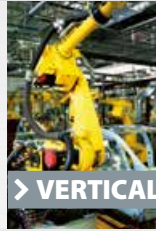
LiFePO4 BATTERY PACKS

Long-life and safe lithium iron phosphate cells



	BP-LFP-1375 99 Wh	BP-LFP-1375D 99 Wh
Key Features	<ul style="list-style-type: none"> ✓ Storage medium for UPS systems ✓ Compact shrink tube version ✓ 10-year long-life battery ✓ Safe lithium iron phosphate cells ✓ Temperature range -20...+55 °C ✓ Integrated BMS with cell balancing 	<ul style="list-style-type: none"> ✓ Storage medium for UPS systems ✓ Robust DIN-Rail version ✓ 10-year long-life battery ✓ Safe lithium iron phosphate cells ✓ Temperature range -20...+55 °C ✓ Integrated BMS with cell balancing
Technology	LiFePO4	LiFePO4
Description	LiFePO4, 4s3p, 7.5 Ah, 13.2V _{nom} , 26650 99Wh	LiFePO4, 4s3p, 7.5 Ah, 13.2V _{nom} , 26650 99Wh
Temperature range charging	-20...+55 °C	-20...+55 °C
Temperature range backup	-20...+55 °C	-20...+55 °C
Dimension (WxDxH) approx.	~ 66.0 x 113.0 x 83.0 mm	99.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-LFP-1375 ~ 99 min @ 50W ~ 48 min @ 100W ~ 36 min @ 140W	BP-LFP-1375D ~ 99 min @ 50W ~ 48 min @ 100W ~ 36 min @ 140W
	<p>+ Optional accessories</p>  <p>PSZ-1075 Mounting bracket for BP-LFP-1375</p>	

- › Industrial Automation
- › Renewable Energy
- › Energy and Communication
- › Transportation and Logistics
- › Cellular infrastructure



› VERTICAL MARKETS



SUPERCAP ENERGY PACKS

Maintenance-free energy storage

SUPERCAPS
Maintenance-free
supercapacitors with high
cycle stability > 500 000

**VERY FAST CHARGING
LONG LIFETIME**



CELL BALANCING
Maximizes overall performance
of energy storage device

BAT-PWR
Power connection with
output fuse protection

BAT-DATA
I²C EEPROM for identifying
the Supercap pack by the UPS

SUPERCAPS – HIGH POWER DENSITY

Intended for short/medium-time buffering

- + Maintenance-free supercapacitors
- + High cycle stability > 500 000
- + Quickly charged and ready for use
- + Extended temperature range
- + Integrated cell balancing
- + Fuse for short circuit protection
- + Low Total Cost of Ownership (TCO)

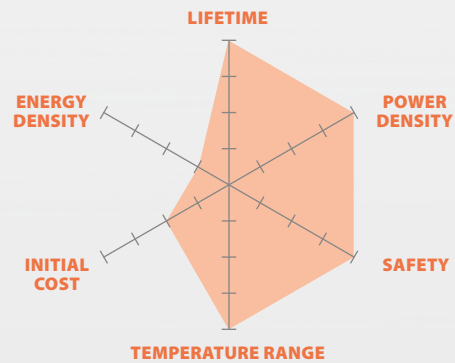


Diagram parameters become better from the inside out.

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



> VERTICAL MARKETS



➤	BP-SUC-1033 4.9 kJ	BP-SUC-1033D 4.9 kJ
Key Features	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Compact open frame PCB version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing 	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Robust DIN-Rail version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing
Technology	Supercaps	Supercaps
Description	1p4s 10.4V _{nom} 4.9 kJ (useful 3.3 kJ)	1p4s 10.4V _{nom} 4.9 kJ (useful 3.3 kJ)
Temperature range charging	-20...+70 °C	-20...+70 °C
Temperature range backup	-20...+70 °C	-20...+70 °C
Dimension (WxDxH) approx.	111.3 x 84.35 x 67.0 mm	99.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-SUC-1033 ~ 65 s @ 50W ~ 30 s @ 100W	BP-SUC-1033D ~ 65 s @ 50W ~ 30 s @ 100W



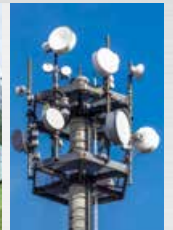
SUPERCAP ENERGY PACKS

Maintenance-free and fast-charging technology



	BP-SUC-1645 6.8 kJ	BP-SUC-1645D 6.8 kJ
Key Features	<ul style="list-style-type: none"> ✓ Long-life storage medium for UPS systems ✓ Compact open frame PCB version ✓ Maintenance-free Supercap technology ✓ High cycle stability >500 000 ✓ Very fast charging ✓ Temperature range -20...+70 °C ✓ Integrated cell balancing 	<ul style="list-style-type: none"> ✓ Long-life storage medium for UPS systems ✓ Robust DIN-Rail version ✓ Maintenance-free Supercap technology ✓ High cycle stability >500 000 ✓ Very fast charging ✓ Temperature range -20...+70 °C ✓ Integrated cell balancing
Technology	Supercaps	Supercaps
Description	1p6s 15.2V _{nom} 6.8 kJ (useful 4.5 kJ)	1p6s 15.2V _{nom} 6.8 kJ (useful 4.5 kJ)
Temperature range charging	-20...+70 °C	-20...+70 °C
Temperature range backup	-20...+70 °C	-20...+70 °C
Dimension (WxDxH) approx.	111.3 x 84.35 x 67.0 mm	99.0 x 100.0 x 120.0 mm
Article No. Backup time nominal @ +25 °C	BP-SUC-1645 ~ 95 s @ 50W ~ 45 s @ 100W ~ 30 s @ 140W	BP-SUC-1645D ~ 95 s @ 50W ~ 45 s @ 100W ~ 30 s @ 140W

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



> VERTICAL MARKETS



➤	BP-SUC-10066 9.8 kJ	BP-SUC-10066D 9.8 kJ
Key Features	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Compact open frame PCB version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing 	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Robust DIN-Rail version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing
Technology	Supercaps	Supercaps
Description	2p4s 10.4V _{nom} 9.8 kJ (useful 6.6 kJ)	2p4s 10.4V _{nom} 9.8 kJ (useful 6.6 kJ)
Temperature range charging	-20...+70 °C	-20...+70 °C
Temperature range backup	-20...+70 °C	-20...+70 °C
Dimension (WxDxH) approx.	147.73 x 121.15 x 67 mm	80.0 x 132.0 x 160.0 mm
Article No. Backup time nominal @ +25 °C	BP-SUC-10066 ~ 125 s @ 50 W ~ 60 s @ 100 W	BP-SUC-10066D ~ 125 s @ 50 W ~ 60 s @ 100 W



SUPERCAP ENERGY PACKS

Maintenance-free and fast-charging technology



	BP-SUC-16090 13.5 kJ	BP-SUC-16090D 13.5 kJ
Key Features	<ul style="list-style-type: none"> ✓ Long-life storage medium for UPS systems ✓ Compact open frame PCB version ✓ Maintenance-free Supercap technology ✓ High cycle stability >500 000 ✓ Very fast charging ✓ Temperature range -20...+70 °C ✓ Integrated cell balancing 	<ul style="list-style-type: none"> ✓ Long-life storage medium for UPS systems ✓ Robust DIN-Rail version ✓ Maintenance-free Supercap technology ✓ High cycle stability >500 000 ✓ Very fast charging ✓ Temperature range -20...+70 °C ✓ Integrated cell balancing
Technology	Supercaps	Supercaps
Description	3p4s 15.2V _{nom} 13.5 kJ (useful 9.0 kJ)	3p4s 15.2V _{nom} 13.5 kJ (useful 9.0 kJ)
Temperature range charging	-20...+70 °C	-20...+70 °C
Temperature range backup	-20...+70 °C	-20...+70 °C
Dimension (WxDxH) approx.	147.73 x 121.15 x 67 mm	80.0 x 132.0 x 160.0 mm
Article No. Backup time nominal @ +25 °C	BP-SUC-16090 ~ 190 s @ 50 W ~ 90 s @ 100 W ~ 60 s @ 140 W	BP-SUC-16090D ~ 190 s @ 50 W ~ 90 s @ 100 W ~ 60 s @ 140 W

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



NEW!



NEW!



➤	BP-SUC-30090 13.5 kJ	BP-SUC-30090D 13.5 kJ
Key Features	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Compact open frame PCB version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing 	<ul style="list-style-type: none"> ✔ Long-life storage medium for UPS systems ✔ Robust DIN-Rail version ✔ Maintenance-free Supercap technology ✔ High cycle stability >500 000 ✔ Very fast charging ✔ Temperature range -20...+70 °C ✔ Integrated cell balancing
Technology	Supercaps	Supercaps
Description	1p12s 30V _{nom} 13.5 kJ (useful 9.0 kJ)	1p12s 30V _{nom} 13.5 kJ (useful 9.0 kJ)
Temperature range charging	-20...+70 °C	-20...+70 °C
Temperature range backup	-20...+70 °C	-20...+70 °C
Dimension (WxDxH) approx.	147.73 x 121.15 x 67 mm	80.0 x 132.0 x 160.0 mm
Article No. Backup time nominal @ +25 °C	BP-SUC-30090 ~ 171 s @ 50 W ~ 86 s @ 100 W ~ 57 s @ 150 W ~ 33 s @ 240 W	BP-SUC-30090D ~ 171 s @ 50 W ~ 86 s @ 100 W ~ 57 s @ 150 W ~ 33 s @ 240 W



RUGGEDIZED OUTDOOR UPS

Integrated system for extreme environments

UPSI | IP SERIES

IP67 PROTECTION



IP67 SEALING PROTECTION

Sealed case elements and connectors are **water, ice, oil and dust resistant** in compliance with IP67.

ALUMINIUM HOUSING

A robust aluminium case protects **UPS electronics and energy storage** against mechanical impacts.

UNSTABLE DC INPUT

DC input with voltage fluctuations, flicker, brownouts or failure of supply voltage.

BUFFERED DC OUTPUT

Uninterruptible and regulated power supply of connected DC applications.

DATA INTERFACE

USB-HID interface for control and data monitoring of all DC UPS settings and functions.

PRESSURE COMPENSATION

A pressure compensation element with a membrane foil prevents the inside formation of condensation.

- Heavy industry and Petrochemical
- Tunneling and Mining
- Surveillance and Communication
- Energy industry
- Commercial vehicles



> VERTICAL MARKETS

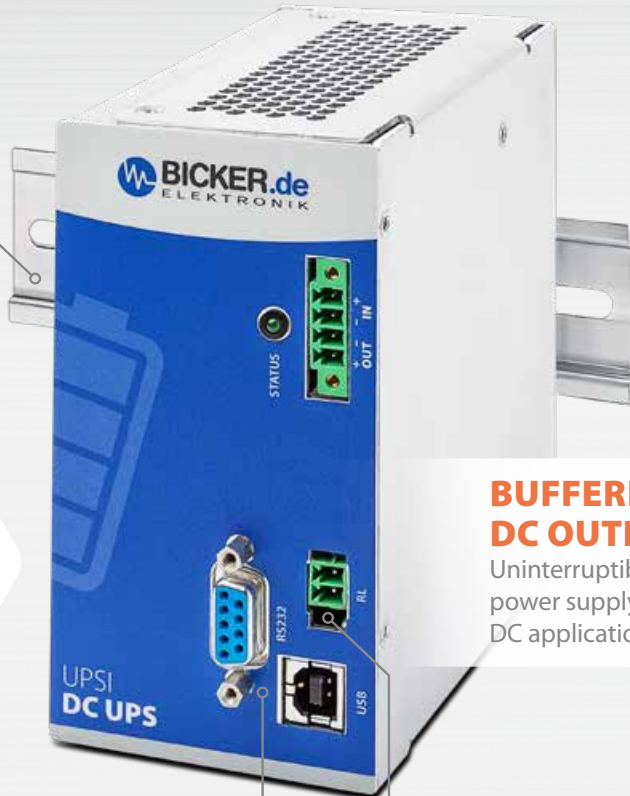


➤	UPSI-IP-1 Series 12VDC/8A 24VDC/6A	UPSI-IP-2 Series 12VDC/8A 24VDC/6A
Key Features	<ul style="list-style-type: none"> ✔ 12V / 24V ruggedized DC UPS ✔ Protection class IP67 ✔ Robust aluminium housing ✔ Based on UPSI-1208 / 2406 technology ✔ Temperature range up to +50°C ✔ Energy storage included: LiFePO4 energy packs 	<ul style="list-style-type: none"> ✔ 12V / 24V ruggedized DC UPS ✔ Protection class IP67 ✔ Robust aluminium housing ✔ Based on UPSI-1208/2406 technology ✔ Temperature range up to +70°C ✔ Energy storage included: LiFePO4 or Supercap energy packs
Type	DC UPS, IP67 version	DC UPS, IP67 version
Input voltage	1208: 12 VDC (12...16.5 V) 2406: 24 VDC (23...29.5 V)	1208: 12 VDC (12...16.5 V) or 7...36 VDC* 2406: 24 VDC (23...29.5 V) or 8...36 VDC*
Optional wide-range input	–	✔
Temperature LiFePO4	Operating: -20...+50 °C / Storage: -20...+55 °C	Operating: -20...+50 °C / Storage: -20...+55 °C
Temperature Supercaps	–	Operating: -20...+70 °C / Storage: -20...+70 °C
Interface	USB, USB-HID	USB, USB-HID
Included storage mediums	BP-LFP-1025 / BP-LFP-1325	BP-LFP-1375 / BP-SUC-10066 / 16090
Dimension (W x D x H)	140.0 x 178.0 x 97.0 mm (incl. mounting brackets)	202.0 x 267.0 x 117.0 mm (incl. mounting brackets)
3-Years-Warranty	✔	✔
Article No. Output voltage	UPSI-1208IP-11U Normal: $V_{in} - 1$ V (Full load) Backup: 12 VDC/8A (25 Wh) UPSI-2406IP-12U Normal: $V_{in} - 1$ V (Full load) Backup: 23.5 VDC/6A (33 Wh)	UPSI-1208IP-23U Normal: $V_{in} - 1$ V (Full load) Backup: 12 VDC/8A (6.6 kJ) UPSI-1208IP-23UW* Normal: 11.5 VDC Backup: 12 VDC/8A (6.6 kJ) UPSI-2406IP-24U Normal: $V_{in} - 1$ V (Full load) Backup: 23.5 VDC/6A (9.0 kJ) UPSI-2406IP-24UW* Normal: 23.5 VDC Backup: 23.5 VDC/ 5.42 A (9.0 kJ) UPSI-2406IP-26U Normal: $V_{in} - 1$ V (Full load) Backup: 23.5 VDC/6A (99 Wh) UPSI-2406IP-26UW* Normal: 23.5 VDC Backup: 23.5 VDC/4.6A (99 Wh)
		* Version with optional wide-range input



INTEGRATED COMBI DC UPS

UPS with integrated energy storage



DIN-RAIL MOUNTING

A compact and robust aluminium chassis with brackets for DIN-Rail mounting contains electronics and energy storage of the UPS.

UNSTABLE DC INPUT

DC input with voltage fluctuations, flicker, brownouts or failure of supply voltage.

BUFFERED DC OUTPUT

Uninterruptible and regulated power supply of connected DC applications.

DATA INTERFACES

USB-HID interface for monitoring, control and pre-programming of all DC UPS settings.

RELAY DRY CONTACT

On power fail (interrupted input power) the relay dry contact is closed.



Energy storage SUPERCAPS

Maintenance-free Supercaps are fast charging, highly efficient and long-lasting energy storage devices with $\geq 500,000$ cycles. Supercaps are ten times longer lasting than lead-acid batteries.

Short / medium backup times.



Energy storage LI-ION / LiFePO4 BATTERY

Lithium-Ion cells enable batteries with space and weight savings of up to 75% – compared to conventional lead-acid batteries. The number of charge/discharge cycles and the realizable DoD (Depth of Discharge) are also many times higher.

Long backup times.

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



> VERTICAL MARKETS



➤	UPSI-1208DP3 12 VDC / 8 A / LiFePO4	UPSI-2406DP3 24 VDC / 6 A / LiFePO4
Key Features	<ul style="list-style-type: none"> ✔ Integrated maintenance-free LiFePO4 battery ✔ Cycle Life ≥6 000 ✔ Intelligent power sharing ✔ Regulated output voltage in backup mode ✔ Minimum load detection ✔ Power fail Timer-Funktion 	<ul style="list-style-type: none"> ✔ Integrated maintenance-free LiFePO4 battery ✔ Cycle Life ≥6 000 ✔ Intelligent power sharing ✔ Regulated output voltage in backup mode ✔ Minimum load detection ✔ Power fail Timer-Funktion
Type	DC UPS	DC UPS
Input voltage	12 VDC (11.5...16.5 V)	24 VDC (22.5...30 V)
Temperature LiFePO4	Operating: -20...+55 °C / Storage: -30...+55 °C	Operating: -20...+50 °C / Storage: -30...+55 °C
Interface	USB, RS232, USB-HID	USB, RS232, USB-HID
Included storage mediums	LiFePO4 2.5 Ah / 25 Wh	LiFePO4 2.5 Ah / 33 Wh
Dimension (W x D x H)	63.0 x 120.0 x 100.0 mm	63.0 x 120.0 x 100.0 mm
3-Years-Warranty	✔	✔
Article No.	UPSI-1208DP3	UPSI-2406DP3
Output voltage	Normal mode $V_{IN} - 0.6$ VDC max. (depending on load) Backup mode 12 VDC	Normal mode $V_{IN} - 0.5$ VDC max. (depending on load) Backup mode 23.5 VDC



INTEGRATED COMBI DC UPS

UPS with integrated energy storage



	UPS I-1208DP2 12 VDC / 8 A / Supercaps	UPS I-2406DP2 24 VDC / 4 A / Supercaps
Key Features	<ul style="list-style-type: none"> ✓ Maintenance-free Supercap technology ✓ Cycle Life > 500 000 ✓ Intelligent power sharing ✓ Regulated output voltage ✓ Power fail timer & Reboot function 	<ul style="list-style-type: none"> ✓ Maintenance-free Supercap technology ✓ Cycle Life > 500 000 ✓ Intelligent power sharing ✓ Regulated output voltage ✓ Power fail timer & Reboot function ✓ IEC / UL / CSA 61010-1 ✓ IEC / UL / CSA 61010-2-201
Type	DC UPS, DIN-Rail version	DC UPS, DIN-Rail version
Input voltage	12 VDC (11.5...16V)	24 VDC (22.5...30V)
Temperature range	-20...+65 °C	-20...+65 °C
Interface	USB, RS232, USB-HID	USB, RS232, USB-HID
Storage Medium	EDLC 3.5 kJ / 0.972 Wh useful	EDLC 3.5 kJ / 0.972 Wh useful
Dimension (WxDxH) approx.	63 x 100 x 120 mm	63 x 100 x 120 mm
3-Years-Warranty	✓	✓
Article No.	UPS I-1208DP2	UPS I-2406DP2
Output voltage	Normal mode $V_{IN} - 0.6$ VDC max (depending on load) Backup mode +12 VDC	Normal mode $V_{IN} - 0.5$ VDC max (depending on load) Backup mode +23.5 V

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Cellular infrastructure



> VERTICAL MARKETS

NEW!




➤	UPS I-2406DP1 24 VDC / 4 A / Li-Ion
Key Features	<ul style="list-style-type: none"> ✔ Cycle Life ≥ 500 ✔ Intelligent power sharing ✔ Regulated output voltage ✔ Battery start function ✔ Power fail timer & Reboot function ✔ IEC / UL / CSA 61010-1 ✔ IEC / UL / CSA 61010-2-201
Type	DC UPS, DIN-Rail version
Input voltage	24 VDC (22.5...30V)
Temperature range	0...+50°C
Interface	USB, RS232, USB-HID
Storage Medium	Li-Ion 2.5 Ah / 37 Wh
Dimension (WxDxH) approx.	63 x 100 x 120 mm
3-Years-Warranty	✔
Article No.	UPS I-2406DP1
Output voltage	Normal mode $V_{IN} - 0.5 \text{ VDC max}$ (depending on load) Backup mode +23.5 V



COMPACT UPS 12 V & 24 V

Modules with maintenance-free Supercaps




	UPSIC-1205 12VDC / 5 A	UPSIC-1205D 12VDC / 5 A
Key Features	<ul style="list-style-type: none"> ✓ Regulated voltage at backup ✓ Supercaps for energy storage ✓ Maintenance-free ✓ High cycle stability > 500 000 ✓ Charge time <60 sec at max. charge current ✓ Active reverse polarity protection 	<ul style="list-style-type: none"> ✓ Compact DIN-Rail chassis ✓ Regulated voltage at backup ✓ Supercaps for energy storage ✓ Maintenance-free ✓ High cycle stability > 500 000 ✓ Charge time <60 sec at max. charge current ✓ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	12 VDC (11.6...16 VDC)	12 VDC (11.6...16 VDC)
Storage Medium	Supercaps	Supercaps
Description	1.8 kJ (useful 1.1 kJ)	1.8 kJ (useful 1.1 kJ)
Temperature range	-20...+70 °C	-20...+70 °C
Dimension (W x D x H)	135.0 x 79.5 x 26.0 mm incl. Supercaps	36.0 x 103.0 x 147.0 mm
3-Years-Warranty	✓	✓
Article No.	UPSIC-1205	UPSIC-1205D
Output voltage	Normal mode 0.3 V below V_{in} / 5.0 A Battery mode +12 V / 5.0 A	Normal mode 0.3 V below V_{in} / 5.0 A Battery mode +12 V / 5.0 A
	<p>➕ Optional accessories</p>  <p>PSZ-1063 μExtension module</p>	

- Industrial Automation
- Cellular infrastructure
- Energy and Communication
- Transportation and Logistics
- Vending / POS



> VERTICAL MARKETS




➤	UPSIC-2403 24 VDC / 3 A	UPSIC-2403D 24 VDC / 3 A
Key Features	<ul style="list-style-type: none"> ✔ Regulated voltage at backup ✔ Supercaps for energy storage ✔ Maintenance-free ✔ High cycle stability > 500 000 ✔ Charge time <60 sec at max. charge current ✔ Active reverse polarity protection 	<ul style="list-style-type: none"> ✔ Compact DIN-Rail chassis ✔ Regulated voltage at backup ✔ Supercaps for energy storage ✔ Maintenance-free ✔ High cycle stability > 500 000 ✔ Charge time <60 sec at max. charge current ✔ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	24 VDC (22.5...30 VDC)	24 VDC (22.5...30 VDC)
Storage Medium	Supercaps	Supercaps
Description	1.8 kJ (useful 1.1 kJ)	1.8 kJ (useful 1.1 kJ)
Temperature range	-20...+70 °C	-20...+70 °C
Dimension (W x D x H)	135.0 x 79.5 x 26.0 mm incl. Supercaps	36.0 x 103.0 x 147.0 mm
3-Years-Warranty	✔	✔
Article No.	UPSIC-2403	UPSIC-2403D
Output voltage	Normal mode 0.2 V below V_{in} / 3.0 A Battery mode +24 V / 3.0 A	Normal mode 0.2 V below V_{in} / 3.0 A Battery mode +24 V / 3.0 A
	+ Optional accessories  PSZ-1063 μExtension module	



WIDE-RANGE INPUT DC UPS

16–32VDC input to buffered 12VDC output



	DC2412-UPS 12VDC / 5 A	DC2412-UPSD 12VDC / 5 A
Key Features	<ul style="list-style-type: none"> ✓ DC UPS with wide-range input 16...32VDC and uninterruptible 12 VDC output ✓ Maintenance-free Supercaps for energy storage ✓ High cycle stability > 500 000 ✓ Active reverse polarity protection ✓ Compact design 	<ul style="list-style-type: none"> ✓ DC UPS with wide-range input 16...32VDC and uninterruptible 12 VDC output ✓ Maintenance-free Supercaps for energy storage ✓ High cycle stability > 500 000 ✓ Active reverse polarity protection ✓ Output release from 90 % Supercap capacity
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	16...32 VDC (24 VDC nom.)	16...32 VDC (24 VDC nom.)
Storage Medium	Supercaps	Supercaps
Description	1.8 kJ (useful 1.1 kJ)	1.8 kJ (useful 1.1 kJ)
Temperature range	-20...+70 °C	-20...+70 °C
Dimension (W x D x H)	135.0 x 79.5 x 35.0 mm incl. Supercaps	36.0 x 103.0 x 147.0 mm
3-Years-Warranty	✓	✓
Article No.	DC2412-UPS	DC2412-UPSD
Output voltage	+12 V / 5 A	+12 V / 5 A
	<p>➕ Optional accessories</p>  <p>PSZ-1063 μExtension module</p>	

- › Industrial Automation
- › Cellular infrastructure
- › Energy and Communication
- › Transportation and Logistics
- › Vending / POS



› VERTICAL MARKETS



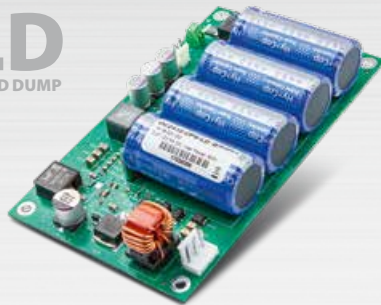
›	DC2412-UPSDP2 12 VDC / 5 A
Key Features	<ul style="list-style-type: none"> ✓ DC UPS with wide-range input 16...32V DC and uninterruptible 12 VDC output ✓ Maintenance-free Supercaps ✓ Extended backup time ✓ High cycle stability > 500 000 ✓ Reboot function ✓ Output release from 90% Supercap capacity
Type	DC UPS, DIN-Rail version
Input voltage	16...32 VDC (24 VDC nom.)
Storage Medium	Supercaps
Description	1.8 kJ (useful 1.1 kJ)
Temperature range	-20...+70 °C
Dimension (W x D x H)	67.0 x 120.0 x 147.0 mm
3-Years-Warranty	✓
Article No.	DC2412-UPSDP2
Output voltage	+12 V / 5 A



WIDE-RANGE INPUT DC UPS


16–32VDC input to buffered 12VDC output

LD
LOAD DUMP

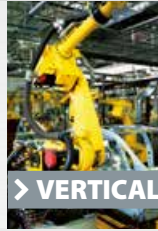


LD
LOAD DUMP



	DC2412-UPS-LD 12VDC / 5 A	DC2412-UPS-LDD 12VDC / 5 A
Key Features	<ul style="list-style-type: none"> ✓ DC UPS with wide-range input 16...32VDC and uninterruptible 12 VDC output ✓ Maintenance-free Supercaps for energy storage ✓ High cycle stability > 500 000 ✓ High overvoltage protection up to 123VDC according to ISO 7637-2 "load dump" 	<ul style="list-style-type: none"> ✓ DC UPS with wide-range input 16...32VDC and uninterruptible 12 VDC output ✓ Maintenance-free Supercaps ✓ High cycle stability > 500 000 ✓ High overvoltage protection up to 123VDC according to ISO 7637-2 "load dump" ✓ Reboot function
Type	DC UPS, circuit board	DC UPS, DIN-Rail version
Input voltage	16...32 VDC (24 VDC nom.)	16...32 VDC (24 VDC nom.)
Storage Medium	Supercaps	Supercaps
Description	1.8 kJ (useful 1.1 kJ)	1.8 kJ (useful 1.1 kJ)
Temperature range	-20...+70 °C	-20...+70 °C
Dimension (W x D x H)	135.0 x 79.5 x 35.0 mm incl. Supercaps	36.0 x 103.0 x 147.0 mm
3-Years-Warranty	✓	✓
Article No.	DC2412-UPS-LD	DC2412-UPS-LDD
Output voltage	+12 V / 5 A	+12 V / 5 A
	<p>➕ Optional accessories</p>  <p>PSZ-1063 µExtension module</p>	

- › Industrial Automation
- › Cellular infrastructure
- › Energy and Communication
- › Transportation and Logistics
- › Vending / POS



› VERTICAL MARKETS



Li-Ion BATTERY PACKS

For demanding industrial & medical applications



Li-Ion - HIGH ENERGY DENSITY Intended for long-time buffering

- + Space and weight saving Li-Ion technology
- + 5x longer service life than lead batteries*
- + Integrated temperature sensor
- + 100% free of lead and cadmium
- + Controlled by BMS
- + Integrated cell balancing
- + Low Total Cost of Ownership (TCO)

*Compared to conventional lead-acid battery cells

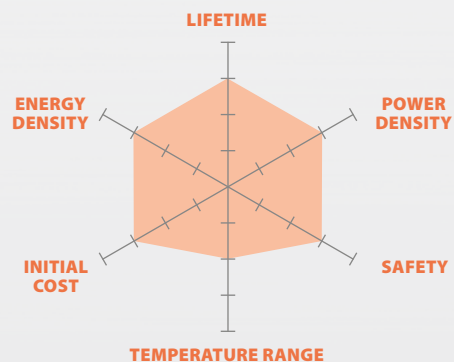


Diagram parameters become better from the inside out.

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Transportation and Logistics
- Medical technology



> VERTICAL MARKETS



➤	BP-LIO-1525 37 Wh
Key Features	<ul style="list-style-type: none"> ✔ IEC/EN 62133-2 approved for medical devices ✔ System present function ✔ Integrated temperature sensor ✔ UL 62133:2017 Ed.2 certified ✔ High energy density ✔ 100% free of lead and cadmium ✔ 5x longer service life than lead batteries
Technology	Li-Ion
Description	Li-Ion, 4S1P, 2.5 Ah, 14.8V _{nom} 37 Wh
Temperature range charging	0...+50 °C
Temperature range backup	-20...+60 °C
Dimension (WxDxH) approx.	~ 70.0 x 76.0 x 25.0 mm
Article No.	BP-LIO-1525



AC UPS

Integrated Uninterruptible Power Supply



	IUPS-401-110-B7 400 VA	IUPS-401 400 VA
Key Features	<ul style="list-style-type: none"> ✓ Integrated UPS with 110 V AC input ✓ Communication interface (Serial D-SUB) ✓ Reboot function ✓ Load sensor ✓ Designed for PC slot 	<ul style="list-style-type: none"> ✓ Integrated UPS with 230 V AC input ✓ Communication interface ✓ Reboot function ✓ Load sensor ✓ Designed for PC slot
Type	Integrated AC UPS	Integrated AC UPS
Input voltage	110 V AC ±15 %	230 V AC ±15 %
Temperature range	0...+40°C	0...+40°C
Dimension (W x D x H)	146.0 x 253.0 x 42.0 mm	146.0 x 253.0 x 42.0 mm
3-Years-Warranty	✓	✓
Article No.	IUPS-401-110-B7	IUPS-401 IUPS-401-B5 IUPS-401-BB IUPS-401-BC IUPS-401-B1 IUPS-401-B4 IUPS-401-BA IUPS-401-B9 For detailed information see next page.

- Industrial Automation
- Renewable Energy
- Energy and Communication
- Small Office / Home Office (SOHO)

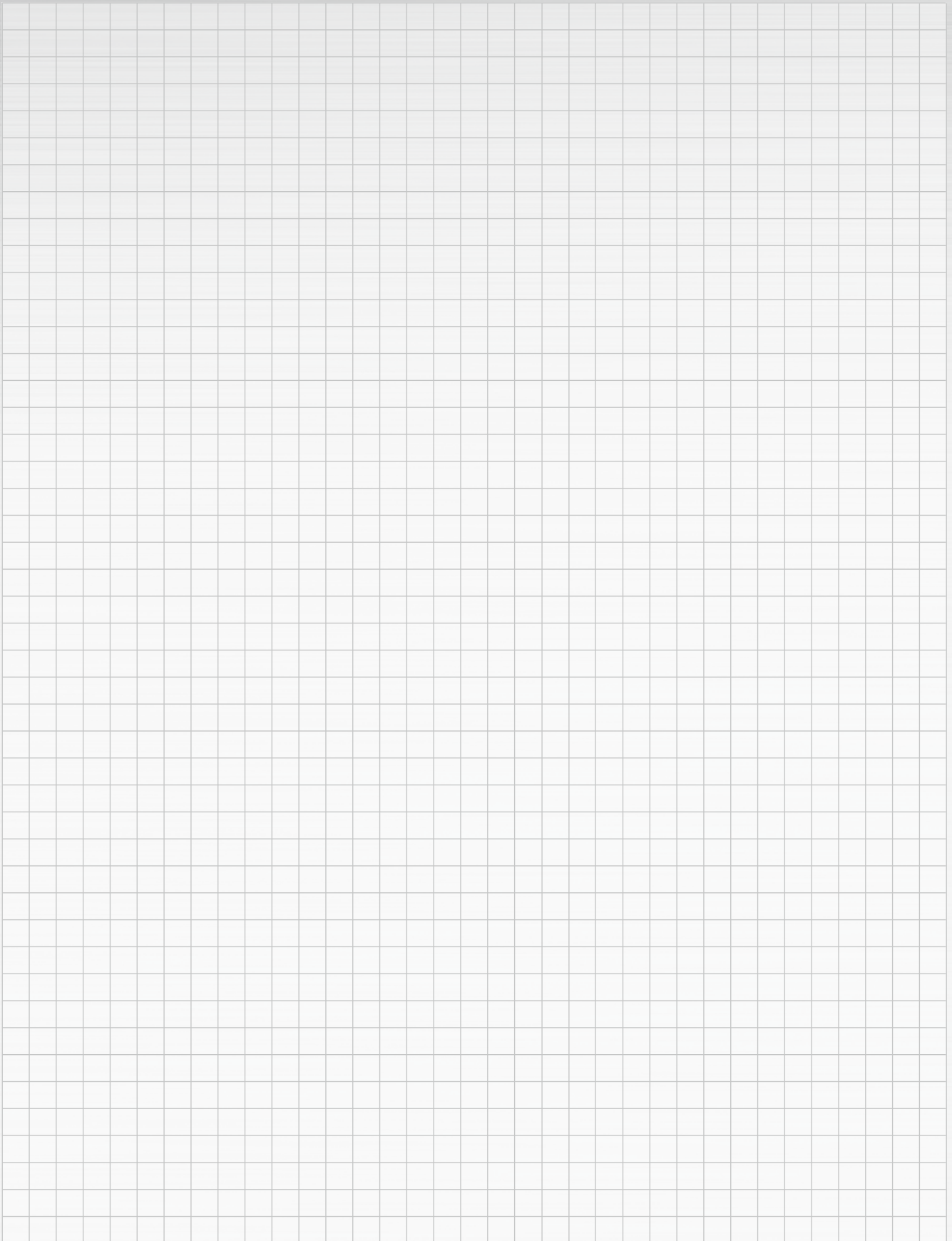


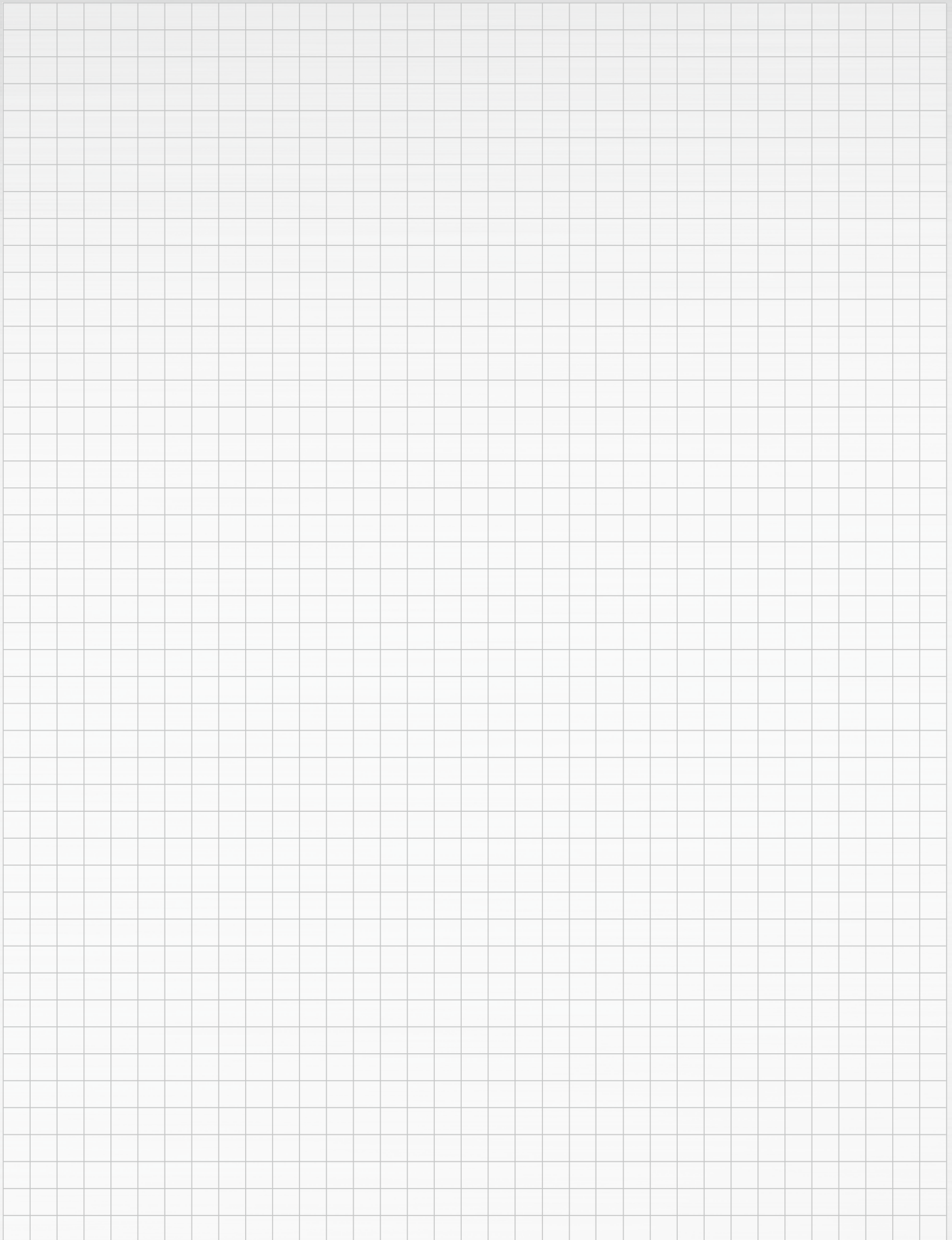
> VERTICAL MARKETS

➤ ADDITIONAL INFORMATION FOR IUPS-401

Article No.	Interface	Load sensor switch off	UPS Management Software	Reboot function
IUPS-401	USB	≤33 W	UPSilon 2000 and internal USB cable included in delivery (Windows® 7, 8, 10, Server 2012/2016/2019). External USB cable 2.0, A-/B-plug / 500 mm included in delivery.	If mains voltage returns after a power failure while Windows® is already shutting down, the UPS switches the PC off (after the shut-down period) and switches it on again after app. 30 sec...5 minutes depending on the battery capacity (the higher the capacity, the shorter the restart time). This latency is required to ensure sufficient energy for a secure shutdown in case of a new power failure.
IUPS-401-B5	USB	≤20 W		
IUPS-401-BB	USB	≤8 W		
IUPS-401-BC	USB	≤0 W		
IUPS-401-B1	SERIAL (D-SUB)	≤33 W	RUPS 2000 OEM, UPS management software (Windows® 7, 8, 10, Server 2012/2016/2019) and 9-pole interface cable included in delivery.	If mains voltage returns after a power failure while Windows® is already shutting down, the UPS switches the PC off (after the shut-down period) and switches it on again after approximately 5 seconds in conjunction with RUPS 2000 and an ACPI-PC. Please observe BIOS settings of mainboard.
IUPS-401-B4	SERIAL (D-SUB)	≤20 W		
IUPS-401-BA	SERIAL (D-SUB)	≤8 W		
IUPS-401-B9	SERIAL (D-SUB)	≤0 W		

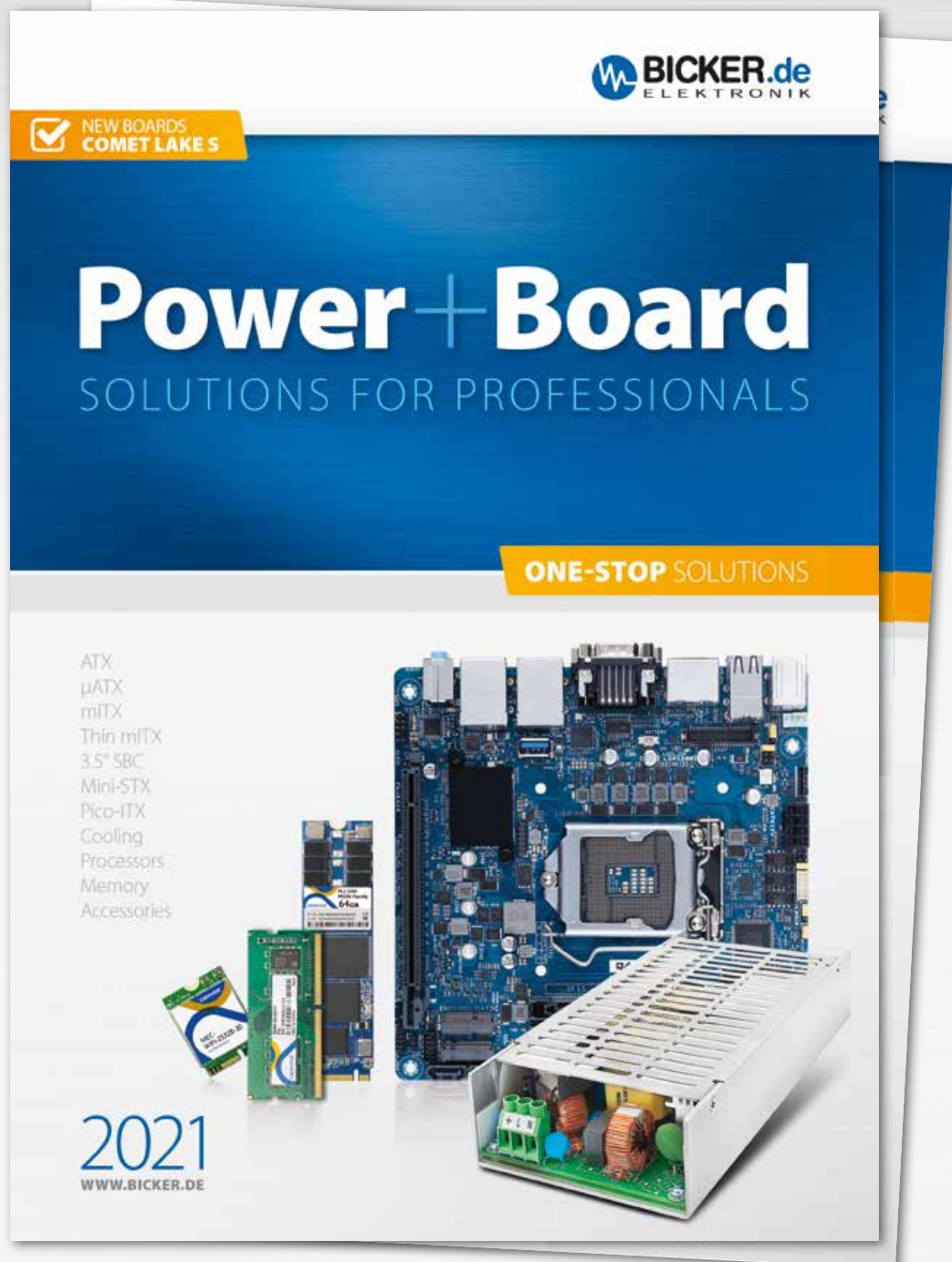






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Note: Subject to errors and technical modifications! The contents of this catalogue have been assembled with greatest care and are in line with our current level of information. The current catalogue replaces all previous catalogues. Issued February 2021



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