

POWER SUPPLIES EQUIPMENT AND SYSTEMS

DC/DC Converters | DC/AC Inverters | AC/DC UPS | CUSTOM-MADE SOLUTIONS



Reliable. Innovative. Solutions.



Revolutionizing energy conversion systems since 1981

During 40 years, at Premium we have worked towards transforming our goals into achievements, our team's talent into revolutionary ideas and our values into commitments. As a result, in this catalogue we gather our range of DC/DC converters, DC/AC inverters, and uninterrupted power supplies (UPS), as well as high reliability custom-made solutions (from 50W to 60kW).

All phases of our projects are carried out in Barcelona and guarantee the highest quality, from the design to the homologation, through manufacturing. Thanks to the most advanced testing systems, we can ensure the compliance with the necessary specifications and standards that enable the use of our products in various markets, such as industrial, railway, energy or in defense applications.

Over four decades of experience creating standard products and more than 900 custom-made designs have resulted in a unique know-how that transforms into solutions of reduced costs and delivery times.

Shaping the power of the future



Our quality and environmental commitment

ISO 9001

All Premium's processes are in compliance with the ISO 9001 regulation, which lays the groundwork of our day to day processes. These quality standards are always subject to inspection and improvement, keeping quality and security at pace of innovation and talent integration.

ISO 14001

Our quality commitment intends to boost sustainability. In 2019 we incorporated an environmental management system based in the UNE-EN ISO 14001 regulation. At Premium we believe that achieving good environmental practices speaks about our responsibility as a global company, where we have to consciously contribute to our environment's protection.

Conflict Minerals Policy, RoHs Directive and REACH Regulation

All our products **comply with the Conflict Minerals Policy, RoHs Directive and REACH Regulation**. Thanks to these regulations, we can assure that the materials used in our energy conversion solutions have not posed a social and/or sanitary risk in the manufacturing process.



Our markets

High-tech industry

Innovation at the service of reliable power systems

Developing reliable power conversion solutions is key to withstand and boost the digitalization and the progress toward the continuous industry revolution. During 40 years, at Premium we have offered the most pioneering technology, while evolving and keeping our quality standards high. Our solutions can be found in applications such as high-tech compressors, AGVs, coating machinery and semiconductor lithography machines among others. Our experience leads us to stay up to date with market trends and over 900 custom designs endorse our adaptive capability at all levels and specifications..

Railway and transportation

Taking us far since 1981

Efficiency, quality and reliability are merged in our railway solutions. In a demanding sector in terms of results and safety, our range of specific converters, inverters and power supplies for railway application stands out in performance and robustness. Our solutions can be found in vehicles such as trams, light rails, subways, locomotives, or on-board equipment from all over the world and in applications like HVAC systems, auxiliary and emergency systems, propulsion systems or low battery starters, among others. All our products comply with the EN50155 and EN45545 standards. Our know-how broadens our design possibilities, without sacrificing development cost and time to market.

Energy

40 years providing power to essential loads

Our mission at Premium has always been transforming in terms of solutions' functionality, but also researching innovative ideas that allow us to make a difference. In the energy market, we are involved in projects related to high and medium voltage substations, smart grid applications and hydrogen fuel cells. Our partnership with the largest energy distributors and power generation market leaders, has allowed us to learn, grow and evolve with new technologies and communication protocols.

Extreme environments

Rising up to new challenges

Setting limits is not our style, and that is why for over 40 years our energy conversion systems have played the main role in constant optimization. The results of our solutions in extreme environments speak for themselves about our quality and efficiency.

Our solutions

Our ideas are developed from start to finish in Barcelona to be used all over the world. Our designs come true in the form of DC/DC converters, DC/AC inverters, AC/DC power supplies and AC/DC UPS and battery chargers from 50W to 50kW. The best of our products is that they give an answer to real needs. In case that the project demands a solution that does not exist as a standard product, at Premium we customize it with all the quality and safety guarantees.

We offer a 3-year warranty in industrial standard products and a 5-year warranty in railway products.

At Premium we supervise our products with extreme care in all phases, from their design to their final shipment. We start with the premise of adapting our products to our customers, not the other way around. Thus, we adjust our product's features in terms of security and quality tests for its correct development.

From the production department, product performance tests are carried out through automatic verification equipment. In addition, either through internal or external laboratories, we can make electrical and functional tests, climatic tests and electromagnetic compatibility tests according to each project's needs. Once finished, 100% of our products spend several hours in a burn-in room under controlled temperature conditions. These intensive tests are what make a difference in our solutions, positioning us as technological leaders in our field.



Our facilities

Our facilities are a continuation of Premium's innovative spirit and have been growing and evolving at the same time as our experience and knowledge. The quality of Premium's solutions is the result of a strong investment in technological improvement and in the development of unique production techniques. With over 3.000 sqm (32.000sqf), we currently have the optimal facilities to provide the best version of our power conversion solutions. BORN IN BARCELONA, POWERING THE WORLD

R&D Department

From the moment an idea is proposed until the solution materializes, we make sure that the product fulfills its needs during the foreseen life period. It all starts in Premium's brain: our R&D department, where a team of the best engineers starts designing the products according to specifications.

During the design process, our team is in constant contact with the customer in order to use all its experience to increase the customer's competitiveness to its fullest, while implementing state of the art technologies in order to reduce energy consumption and reducing environmental impact. Our R&D department also makes sure all prototypes are verified and put through numerous simulations and tests before industrializing the product.







R&D Testing Lab

Most of the testing can be carried out in our facilities and with our own state of the art equipment:

• Semi-anechoic chamber for EMC both in emission and immunity

• Climatic chamber for temperature, damp heat, and accelerated aging tests

• Insulation resistance and dielectric strength up to 15kV for electrical safety directives

• Complete range of AC & DC sources and electronic loads

At Premium we continually strive to achieve the necessary means to elevate our results and exceed our costumers' expectations.











Production area

Premium's production area is within an antistatic circuit that includes not only the reception of raw material, packaging and shipping areas, but also the entire production, assembly and verification chain. Due to this concentration of work phases in the same area, our industrialization process is considerably short. In addition, by introducing automated processes, human errors are minimized and our efficiency increases significantly.

One of our latest additions to our facilities is a clean room, which aims to meet the most demanding needs of our customers. Our clean room is ISO 14644 certified and complies with the highest security and quality guarantees. Regarding its functionality, this equipment allows us to optimize the cleaning process for products intended to be used in controlled environments. Premium's clean room includes 3 independent spaces with different cleaning degrees: ISO8, ISO7 and ISO6.

We also have **automatic verification equipment** to guarantee the correct functioning of the products before being stored and shipped. **All our products spend several hours in a burn-in room under controlled temperature conditions** and a verification test report that includes the most representative results is available for all units sent out from our website.

Our facilities are not only crucial in the manufacturing of current products, but also in the establishment of new goals in order to keep revolutionizing high level power electronics.

Our custom made solutions

There are times when finding the perfect standard solutions is nearly impossible. At Premium, we believe in pushing the limits and because of that we follow this principle: if we can imagine it, we can design it.

Our custom-made solutions are our main commitment at Premium. We design from scratch, based in over 900 previous designs, and make modifications to standard products to meet the needs of any project's specification.

Going for a custom-made product from Premium is an ideal solution for several reasons:



Performance and reliability: at Premium we maximize the efficiency when faced with any power electronics challenge.



Time: the development phase for a custom-made solution can go anywhere from 3 weeks to 6 months, being 25% faster than

our competition.



Price: we set a budget without unexpected fluctuations.



Flexibility: our custom-made solutions can evolve and allow continuous improvement after being placed on the market.



Differentiation: a custom-made solution rises our customers' added value, which contributes to the positioning of their product ahead from their competitors.



Security: we guarantee the quality and safety of our products by making sure they comply with the needed regulations.

At Premium, custom is our standard

Premium's customization is a 360° process: we design, test, validate and manufacture all of our solutions in our facilities in Barcelona with our team of over 50 engineers. We assist our customers throughout all the customization process and offer technical advice based in our unique know-how to make the solution excellent. Not in vain, our experience of over 40 years and a dream R&D Team have made us technological leaders in energy solutions.

At Premium we develop custom-made DC/DC converters, DC/AC inverters, AC/DC power supplies, AC/DC battery chargers and rectifiers, bidirectional converters and AC/AC frequency converters. We can develop limitless solutions. Some of the most common technical capabilities we work based on are:

Very high-power density & high frequency: from 50W to 60kW

Input voltages up to 460Vac (1-3ph) and 1500Vdc (4,5kV pk)

Efficiencies up to 95%

Up to IP68 protection

15kV isolation (surges of $\pm 20kV$ 1,2/50 μ s)

In order to give the best in our solutions, the most common items we usually work on are:

- Design: mechanic and PCB
- Ripples and specific noises
- High efficiencies
- Design personalization according to client requirements in terms of regulations and market standards (EMC, MIL-STD, DEF-STAN, UL, CE, UKCA, CSA CB, DNV...)
- RAMS analysis and SIL approval
- Software driven functionalities
- Specific systems testing
- Innovation from design to industrialization

Without any doubt, custom-made solutions are what sets us apart and allow us to go further.



Communication and alarm protocols based on each project needs Output voltages up to 480Vac (1-3ph) and 750Vdc Multiple and wide input and output voltages Wide operating temperature: from -40°C to +85°C



PRODUCT CATALOGUE

DC/DC Conver

DC/AC Inverte

AC/DC UPS

Custom-Made



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DC/DC converters

High efficiency and high reliability in a compact size

Power range from 50W to 6KW

Wide variety of input/output combinations

Series specifically designed according to EN50155, EN45545, and EN61373

Temperature range from -40°C to +85°C (OT6 class)

Easy install options

CCS-60 RAILWAY 50-70W DC/DC CONVERTERS



Power [W] 50 - 70

KEY FEATURES Low profile

CCS-60 12 Vin 9.5V ... 15V 24 Vin 14.4V ... 30V 36 Vin 2 CCS-60-6551 CCS-60-6555 CCS-5Vout 50W 50W CCS-60-6552 CCS-60-6556 CCS-12Vout 60W 70W CCS-CCS-60-6557 CCS-60-6553 24Vout 70W 60W CCS-60-6554 CCS-60-6558 CCS-48Vout 70W 60W

CRS-60 50-60W DC/DC CONVERTERS



Power [W] 50 - 60 Input Voltage Range [V] 9.5 - 144 Output Voltage Range [V] 4.5 - 55.2 **Cooling:** Natural convection **Dimensions [LxWxH in mm]:** 127 x 84,5 x 40

KEY FEATURES Extreme reliability

+1M @40°C

| CRS-60 | 12 VIN 9.5V 15V | 24VIN 18V 30V | 48VIN 36V 60V | 72VIN 50,4V 90V | 110VIN 77V 144V |
|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 5Vout | CRS-60-6731 | CRS-60-6735 | CRS-60-6739 | CRS-60-6743 | CRS-60-6747 |
| | 50W | 50W | 50W | 50W | 50W |
| 12Vout | CRS-60-6732 | CRS-60-6736 | CRS-60-6740 | CRS-60-6744 | CRS-60-6748 |
| | 60W | 60W | 60W | 60W | 60W |
| 24Vout | CRS-60-6733 | CRS-60-6737 | CRS-60-6741 | CRS-60-6745 | CRS-60-6749 |
| | 60W | 60W | 60W | 60W | 60W |
| 48Vout | CRS-60-6734 | CRS-60-6738 | CRS-60-6742 | CRS-60-6746 | CRS-60-6750 |
| | 60W | 60W | 60W | 60W | 60W |

DC/DC Converters



Input Voltage Range [V] 9.5 - 144 Output Voltage Range [V] 4.5 - 55.2 Cooling: Natural convection **Dimensions [LxWxH in mm]:** 100 × 160 × 18



Extreme reliability

| 21.6V 45V | 48 Vin 28.8V 60V | 72 Vin 43.2V 90V | 110 Vin 66V 144V |
|------------------|--------------------|--------------------|--------------------|
| -60-6571 | CCS-60-6559 | CCS-60-6563 | CCS-60-6567 |
| 50W | 50W | 50W | 50W |
| - 60-6572 | CCS-60-6560 | CCS-60-6564 | CCS-60-6568 |
| 70W | 70W | 70W | 70W |
| - 60-6573 | CCS-60-6561 | CCS-60-6565 | CCS-60-6569 |
| 70W | 70W | 70W | 70W |
| - 60-6574 | CCS-60-6562 | CCS-60-6566 | CCS-60-6570 |
| 70W | 70W | 70W | 70W |
| | | | |





Wide input/output range combinations

CTS-60 RAILWAY 50-70W DC/DC CONVERTERS







KEY FEATURES

Extreme reliability Wide input/output range combinations +1M @40°C

| CTS-60 | 24 Vin 14.4V 30V | 36 Vin 21.6V 47V | 48 Vin 28.8V 60V | 72 Vin 43.2V 90V | 110 Vin 66V 144V |
|--------|--------------------|-------------------------|-------------------------|-------------------------|--------------------|
| 5Vout | CTS-60-6835 | CTS-60-6851 | CTS-60-6839 | CTS-60-6843 | CTS-60-6847 |
| | 50W | 50W | 50W | 50W | 50W |
| 12Vout | CTS-60-6836 | CTS-60-6852 | CTS-60-6840 | CTS-60-6844 | CTS-60-6848 |
| | 60W | 60W | 60W | 60W | 60W |
| 16Vout | CTS-60-6856 60W | Available under request | Available under request | Available under request | CTS-60-6855 60W |
| 24Vout | CTS-60-6837 | CTS-60-6853 | CTS-60-6841 | CTS-60-6845 | CTS-60-6849 |
| | 60W | 60W | 60W | 60W | 60W |
| 48Vout | CTS-60-6838 | CTS-60-6854 | CTS-60-6842 | CTS-60-6846 | CTS-60-6850 |
| | 60W | 60W | 60W | 60W | 60W |

CRS-120 100-140W DC/DC CONVERTERS



Power [W] 100 - 140 Input Voltage Range [V] 9 - 275 Output Voltage Range [V] 4.5 - 55.2 **Cooling:** Natural convection **Dimensions [LxWxH in mm]:** 100 x 160 x 38,5



KEY FEATURES

MTBF 1M+ @40°C Extreme reliability Easy install: wall mount, DIN rail, rack mount

| CRS-120 | 12 Vin 9V 15V | 24 Vin 18V 30V | 48 Vin 36V 72V | 72 Vin 50.4V 90V | 110 Vin 77V 144V | 220 Vin 165V 275V |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 5Vout | CRS-120-6761 | CRS-120-6765 | CRS-120-6769 | CRS-120-6773 | CRS-120-6777 | CRS-120-6781 |
| | 100W | 100W | 100W | 100W | 100W | 100W |
| 12Vout | CRS-120-6762 | CRS-120-6766 | CRS-120-6770 | CRS-120-6774 | CRS-120-6778 | CRS-120-6782 |
| | 100W | 120W | 120W | 120W | 120W | 120W |
| 24Vout | CRS-120-6763 | CRS-120-6767 | CRS-120-6771 | CRS-120-6775 | CRS-120-6779 | CRS-120-6783 |
| | 120W | 120W | 140W | 140W | 140W | 140W |
| 48Vout | CRS-120-6764 | CRS-120-6768 | CRS-120-6772 | CRS-120-6776 | CRS-120-6780 | CRS-120-6784 |
| | 120W | 120W | 140W | 140W | 140W | 140W |

CTS-120 RAILWAY 100-140W DC/DC CONVERTERS



Power [W] 100 - 140

KEY FEATURES

MTBF 1M+ @40°C Extreme reliability

| CTS-120 | 24 Vin 14.4V 30V | 36 Vin 21.6V 45V | 48 Vin 28.8V 60V | 72 Vin 43.2V 90V | 110 Vin 66V 144V |
|---------|--------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| 5Vout | CTS-120-6865 100W | CTS-120-6885 100W | CTS-120-6869 100W | CTS-120-6873 100W | CTS-120-6877 100W |
| 12Vout | CTS-120-6866 | CTS-120-6886 | CTS-120-6870 | CTS-120-6874 | CTS-120-6878 |
| | 120W | 120W | 120W | 120W | 120W |
| 24Vout | CTS-120-6867 | CTS-120-6887 | CTS-120-6871 | CTS-120-6875 | CTS-120-6879 |
| | 120W | 140W | 140W | 140W | 140W |
| 48Vout | CTS-120-6868 | CTS-120-6888 | CTS-120-6872 | CTS-120-6876 | CTS-120-6880 |
| | 120W | 140W | 140W | 140W | 140W |

CLS-120 NEW! 120W WIDE INPUT RANGE DC/DC CONVERTERS



Power [W] 120 **Dimensions [LxWxH in mm]:** 100 x 160 x 40

KEY FEATURES Ultra wide input range Efficiency up to 91%

| CLS-120 | |
|---------|--|
| 12Vout | |
| 24Vout | |
| 48Vout | |





Input Voltage Range [V] 14.4 - 144 Output Voltage Range [V] 4.5 - 55.2 Cooling: Natural convection Dimensions [LxWxH in mm]: 100 x 160 x 38,5



Easy install: wall mount, DIN rail, rack mount



Input Voltage Range [V] 14.4 - 154 Output Voltage Range [V] 10.8 - 69.6 **Cooling:** Natural convection



| Universal Railway Input 14.4V 15 | 4V |
|----------------------------------|----|
| CLS-120-6512 120W | |
| CLS-120-6513 120W | |
| CLS-120-6514 120W | |

CRS-240 180-280W DC/DC CONVERTERS







KEY FEATURES

MTBF 1M+ @40°C Extreme reliability Easy install: wall mount, DIN rail, rack mount

| CRS-240 | 12 Vin 9V 15V | 24 Vin 18V 30V | 48 Vin 36V 72V | 72 Vin 50.4V 90V | 110 Vin 77V 144V | 220 Vin 165V 275V |
|---------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 5Vout | CRS-240-6351 180W | CRS-240-6355 180W | CRS-240-6359 180W | CRS-240-6363 180W | CRS-240-6367 180W | CRS-240-6371 180W |
| 12Vout | CRS-240-6352 180W | CRS-240-6356 240W | CRS-240-6360 240W | CRS-240-6364 240W | CRS-240-6368 240W | CRS-240-6372 240W |
| 24Vout | CRS-240-6353 200W | CRS-240-6357 240W | CRS-240-6361 280W | CRS-240-6365 280W | CRS-240-6369 280W | CRS-240-6373 280W |
| 48Vout | CRS-240-6354 200W | CRS-240-6358 240W | CRS-240-6362 280W | CRS-240-6366 280W | CRS-240-6370 280W | CRS-240-6374 280W |

CTS-240 RAILWAY 180-240W DC/DC CONVERTERS



Power [W] 180 - 280 Input Voltage Range [V] 14.4 - 275 Output Voltage Range [V] 4.5 - 55.2 Cooling: Natural convection Dimensions [LxWxH in mm]: 100 x 220 x 38,5



KEY FEATURES

MTBF 1M+ @40°C Extreme reliability Easy install: wall mount, DIN rail, rack mount

| CTS-240 | 24 Vin 14,4V 30V | 36 Vin 21,6V 47V | 48 Vin 28,8V 60V | 72 Vin 43,2V 90V | 110 Vin 66V 144V | 220 Vin 132V 275V |
|---------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 5Vout | CTS-240-6655 180W | CTS-240-6672 180W | CTS-240-6659 180W | CTS-240-6663 180W | CTS-240-6667 180W | Available under request |
| 12Vout | CTS-240-6656 240W | CTS-240-6673 240W | CTS-240-6660 240W | CTS-240-6664 240W | CTS-240-6668 240W | Available under request |
| 24Vout | CTS-240-6657 240W | CTS-240-6674 280W | CTS-240-6661 280W | CTS-240-6665 280W | CTS-240-6669 280W | CTS-240-6678 280W |
| 48Vout | CTS-240-6658 240W | CTS-240-6675 280W | CTS-240-6662 280W | CTS-240-6671 280W | CTS-240-6670 280W | Available under request |

CKR-2000 1960W REDUNDANT DC/DC CONVERTERS



Power [W] 1920 - 2240 Input Voltage Range [V] Output Voltage Range [V] 10.8 - 55.2 Cooling: Natural convection Dimensions [LxWxH in mm]: Sub-rack 19" 3U

KEY FEATURES

Railway version available

| CKR-2000 | B - Sub-rack | | | A - Módulos / Modules | | |
|----------|--------------|-------------|------------|-----------------------|----------------------|--|
| | | Total power | Redun. N+1 | 48 Vin (36V + 60V) | 110 Vin (77V + 144V) | |
| 12Vout | NP-9176 | 1920W | 1680W | NP-9179 240W | NP-9182 280W | |
| 24Vout | NP-9177 | 2240W | 1960W | NP-9180 280W | NP-9183 280W | |
| 48Vout | NP-9178 | 2240W | 1960W | NP-9181 280W | NP-9184 280W | |

CRS-500 500W DC/DC CONVERTERS



Power [W] 500

KEY FEATURES

| CRS-500 | 24VIN 14.4V 30V | 36 VIN 21.6V 45V | 48VIN 28.8V 60V | 72VIN 43.2V 90V | 110VIN 66V 144V |
|---------|-----------------------------|-------------------------|-------------------------|----------------------------|----------------------------|
| 24Vout | CRS-500-6455 | CRS-500-6467 | CRS-500-6458 | CRS-500-6461 | CRS-500-6464 |
| | 500W | 500W | 500W | 500W | 500W |
| 48Vout | CRS-500-6456 | CRS-500-6468 | CRS-500-6459 | CRS-500-6462 | CRS-500-6465 |
| | 500W | 500W | 500W | 500W | 500W |
| 110Vout | CRS-500-6457 500W | Available under request | Available under request | Available under request | Available under request |

DC/DC Converters





Configurable input and output redundancy



Input Voltage Range [V] 14.4 - 144 Output Voltage Range [V] 21.6 - 55.2 Cooling: Natural convection Dimensions [LxWxH in mm]: 266 x 180 x 54,8



Extreme reliability, Oring FET, current sharing & hold-up time options Railway version available

CRS-1000 1000W DC/DC CONVERTERS



Power [W] 1000



KEY FEATURES

Extreme reliability, Oring FET, current sharing & hold-up time options Railway version available

| CRS-1000 | 24 Vin 14.4V 30V | 36 Vin 21.6V 45V | 48 Vin 28.8V 60V | 72 Vin 43.2V 90V | 110 Vin 66V 144V |
|----------|-------------------------------|----------------------------|-------------------------------|-------------------------------|------------------------|
| 24Vout | CRS-1000-6475 1000W | CRS-1000-6487 1000W | CRS-1000-6478 1000W | CRS-1000-6481 1000W | CRS-1000-6484 1000W |
| 48Vout | CRS-1000-6476 1000W | CRS-1000-6488 1000W | CRS-1000-6479 1000W | CRS-1000-6482 1000W | CRS-1000-6485 1000W |
| 72Vout | CRS-1000-6490 1000W | CRS-1000-6491 1000W | Available under request | Available under request | CRS-1000-6494 1000W |
| 110Vout | CRS-1000-6492 1000W | Available under request | Available under request | Available under request | CRS-1000-6493 1000W |

CRS-2000 NEW! 2000W DC/DC CONVERTERS



Power [W] 2000 Input Voltage Range [V] 14.4 - 154 Output Voltage Range [V] 21.6 - 126.5



KEY FEATURES

SiC Technology: high power density Wide input/output range combinations

Cooling: Internal forced air, natural convection

Dimensions [LxWxH in mm]: 314,6 x 220 x 79

| CRS-2000 | 24 Vin 14.4V 30V | 36 Vin 21.6V 45V | 48 Vin 28.8V 60V | 72 Vin 43.2V 90V | 110 Vin 66V 144V |
|----------|-------------------------------|-------------------------------|-------------------------------|----------------------------|-------------------------------|
| 24Vout | CRS-2000-6951 2000W | CRS-2000-6955 2000W | CRS-2000-6959 2000W | CRS-2000-6963 2000W | CRS-2000-6967 2000W |
| 48Vout | CRS-2000-6952 | CRS-2000-6956 | CRS-2000-6960 | CRS-2000-6964 | CRS-2000-6968 |
| | 2000W | 2000W | 2000W | 2000W | 2000W |
| 72Vout | CRS-2000-6953 | CRS-2000-6957 | CRS-2000-6961 | CRS-2000-6965 | CRS-2000-6969 |
| | 2000W | 2000W | 2000W | 2000W | 2000W |
| 110Vout | CRS-2000-6954 | CRS-2000-6958 | CRS-2000-6962 | CRS-2000-6966 | CRS-2000-6970 |
| | 2000W | 2000W | 2000W | 2000W | 2000W |

CVS-280 NEW! 280W DC/DC LOW BATTERY VOLTAGE STARTER



Power [W] 280 Input Voltage Range [V] 400 - 1100 Output Voltage Range [V] 21.6 - 121 **Cooling:** Natural convection **Dimensions [LxWxH in mm]:** 65 x 162 x 230

KEY FEATURES

Parallelizable units by ORing Active catenary surges filter Input voltage according to EN50163:2006 and EN50124-2:2017

| CVS-280 | |
|---------|--|
| 24Vout | |
| 48Vout | |
| 72Vout | |
| 110Vout | |

CBS-10K NEW! **10kW PEAK SINGLE OUTPUT DC/DC CONVERTER**



Power [W] 6000 average Cooling: Internal forced air **Dimensions [LxWxH in mm]:** 477,2 x 257,4 x 84,8

KEY FEATURES

Up to 10 kW during 40s SiC Technology: high power density

| CBS-10K | 24 VDC 16.8 30 V | 48 VDC 33.0 |
|---------|--|--------------------------------------|
| 500 Vdc | CBS-10K-6001 5200 Wpk Available under request | CBS-10K 10000 V Available unde |

DC/DC Converters







- 500Vdc output (up to 700V under request)
- ORing diode at the output for decoupling from 2kW lines

. 60 V

72 VDC 50.4 ... 90 V

110 VDC 77 ... 138 V

-6003 Wpk der request CBS-10K-6004

10000 Wpk Available under request CBS-10K-6005 10000 Wpk Coming Soon

DC/AC inverters

- Compact design, very high power density
- Sine wave output voltage
- Power range from 260VA to 24kVA
- Up to 94% efficiency
- In compliance with EN50155 and EN45545
- Widest range in the market for railway applications

0CS-260 INDUSTRIAL & RAILWAY 260VA DC/AC INVERTERS



Power [W] 180 - 220 Input Voltage Range [V] 9.5 - 138 Output Voltage Range [V] 144 - 241.5 Cooling: Natural convection **Dimensions [LxWxH in mm]:** 100 × 220 × 40

KEY FEATURES

Extreme reliability Sine wave output voltage Railway version available

| OCS-260 | 12Vdc | 24Vdc | 36Vdc | 48Vdc | 72Vdc | 110Vdc |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 9.5 15V | 16.8 30V | 25.2 45V | 33.6 60V | 50.4 90V | 77 138V |
| 120Vac | OCS-260-7041 | OCS-260-7043 | OCS-260-7044 | OCS-260-7045 | OCS-260-7046 | OCS-260-7047 |
| | 180W | 200W | 220W | 220W | 220W | 220W |
| 230Vac | OCS-260-7031 | OCS-260-7033 | OCS-260-7034 | OCS-260-7035 | OCS-260-7036 | OCS-260-7037 |
| | 180W | 200W | 220W | 220W | 220W | 220W |

OPS-260 NEW! 1PH IP66 260VA DC/AC INVERTER



KEY FEATURES Extreme reliability Sine wave output voltage IP66

| OPS-260 | 12Vdc | 24Vdc | 36Vdc | 48Vdc | 72Vdc | 110Vdc |
|---------|--------------|--------------|---------------------|---------------------|--------------|---------------------|
| | 9.5 15V | 16.8 30V | 25.2 45V | 33.6 60V | 50.4 90V | 77 138V |
| 120Vac | OPS-260-7741 | OPS-260-7743 | OPS-260-7744 | OPS-260-7745 | OPS-260-7746 | OPS-260-7747 |
| | 180W | 200W | 220W | 220W | 220W | 220W |
| 230Vac | OPS-260-7731 | OPS-260-7733 | OPS-260-7734 | OPS-260-7735 | OPS-260-7736 | OPS-260-7737 |
| | 180W | 200W | 220W | 220W | 220W | 220W |

| Power [W] 180 - 220 |
|--|
| Input Voltage Range [V] 9.5 - 138 |
| Output Voltage Range [V] 114 - 241.5 |
| Cooling: Natural convection |
| Dimensions [LxWxH in mm]: 67 x 249 x 135 |













DC/AC Inverters

ODS-750 INDUSTRIAL & RAILWAY 450-750W DC/AC INVERTERS



Power [W] 450 - 750 Input Voltage Range [V] 9.5 - 138 Output Voltage Range [V] 0 - 230 Cooling: Internal forced air Dimensions [LxWxH in mm]: 130 x 270 x 50

1ph



High power density Sine wave output voltage Railway version available

KEY FEATURES

| ODS-750 | 12vdc 9.5 15V | 24Vdc 16.8 30V | 36Vac 25.2 45V | 48vac 33.6 60V | 72vdc 50.4 90V | 77 138V |
|---------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| 120Vac | ODS-750-7281 | ODS-750-7283 | ODS-750-7284 | ODS-750-7285 | ODS-750-7286 | ODS-750-7287 |
| | 450W | 750W | 750W | 750W | 750W | 750W |
| 230Vac | ODS-750-7271 | ODS-750-7273 | ODS-750-7274 | ODS-750-7275 | ODS-750-7276 | ODS-750-277 |
| | 450W | 750W | 750W | 750W | 750W | 750W |

ODS-1500 INDUSTRIAL & RAILWAY 1500VA DC/AC INVERTERS





Power [W] 1200 - 1500 Input Voltage Range [V] 10 - 138 Output Voltage Range [V] 0 - 230 Cooling: Internal forced air **Dimensions [LxWxH in mm]:** 360,48 x 161,6 x 65,6



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1ph

KEY FEATURES

Very high power density Sine wave output voltage

Configurable power Railway version available

| ODS-1500 | 12Vdc | 24Vdc | 36Vdc | 48Vdc | 72Vdc | 110Vdc |
|----------|---------------|---------------|---------------|---------------|---------------|----------------------|
| | 10 15V | 16.8 30V | 25.2 45V | 33.6 60V | 50.4 90V | 77 138V |
| 120Vac | ODS-1500-7121 | ODS-1500-7123 | ODS-1500-7124 | ODS-1500-7125 | ODS-1500-7126 | ODS-1500-7127 |
| | 1200W | 1500W | 1500W | 1500W | 1500W | 1500W |
| 230Vac | ODS-1500-7111 | ODS-1500-7113 | ODS-1500-7114 | ODS-1500-7115 | ODS-1500-7116 | ODS-1500-7117 |
| | 1200W | 1500W | 1500W | 1500W | 1500W | 1500W |

ODS-3000

INDUSTRIAL & RAILWAY 3000VA DC/AC INVERTERS



Cooling: Internal forced air

KEY FEATURES

Sine wave output voltage

| ODS- | 24Vdc | 36Vdc | 48Vdc |
|--------|-------------------------|-------------------------|-------------------------|
| 3000 | 16.8 30V | 25.2 45V | 33.6 60V |
| 120Vac | ODS-3000-7163 | ODS-3000-7164 | ODS-3000-7165 |
| | 2400W | 2500W | 2500W |
| 230Vac | ODS-3000-7153 | ODS-3000-7154 | ODS-3000-7155 |
| | 2400W | 3000W | 3000W |
| | Available under request | Available under request | Available under request |

ODX-1300 3PH 1300VA DC/AC INVERTERS



Power [W] 1100 Cooling: Internal forced air

KEY FEATURES Very high power density Sine wave output voltage

| ODX-1300 | 24Vdc | 72Vdc | 110Vdc |
|----------|---------------|---------------|---------------|
| | 16.8 30V | 50 90V | 77 140V |
| 250Vac | ODX-1300-7442 | ODX-1300-7445 | ODX-1300-7447 |
| | 1100W | 1100W | 1100W |
| 400Vac | ODX-1300-7452 | ODX-1300-7455 | ODX-1300-7457 |
| | 1100W | 1100W | 1100W |



Power [W] 2400 - 4000 Input Voltage Range [V] 16.8 - 138 Output Voltage Range [V] 0 - 230 **Dimensions [LxWxH in mm]:** 386,9 x 193,9 x 78,5



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1_{ph}

Very high power density

Configurable power Railway version available





Input Voltage Range [V] 16.5 - 140 Output Voltage Range [V] 0 - 400 **Dimensions [LxWxH in mm]:** 315 x 178 x 66,5



300

Configurable power & soft start Railway version available

DC/AC Inverters

ODX-3000 3PH 3000VA DC/AC INVERTERS









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KEY FEATURES

Very high power density Sine wave output voltage Configurable power & soft start Railway version available

| ODX-3000 | 24Vdc | 36Vdc | 48Vdc | 72Vdc | 110Vdc |
|----------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| | 16.8 30V | 25.2 45V | 33.6 60V | 50.4 90V | 77 138V |
| 230Vac | ODX-3000-7413 2400W | Available under request | Available under request | Available under request | ODX-3000-7417 3000W |
| 400Vac | ODX-3000-7403 | ODX-3000-7404 | ODX-3000-7405 | ODX-3000-7406 | ODX-3000-7407 |
| | 2400W | 3000W | 3000W | 3000W | 3000W |

ODX-4500 3PH 4500VA DC/AC INVERTERS



Power [W] 4000 Input Voltage Range [V] 50.4 - 138 Output Voltage Range [V] 0 - 400 Cooling: Internal forced air **Dimensions [LxWxH in mm]:** 392,87 x 220 x 80,5

T00



300

KEY FEATURES

Very high power density Configurable power & soft start Railway version available



ODX-6000 3PH 6000VA DC/AC INVERTERS



| ODX-6000 | 24Vdc | 48Vdc | 72Vdc | 110Vdc |
|------------|---------------|---------------|---------------|---------------|
| | 16.8 30V | 33.6 60V | 50.4 90V | 77 138V |
| 400Vac | ODX-6000-7502 | ODX-6000-7505 | ODX-6000-7506 | ODX-6000-7507 |
| | 3500W | 6000W | 6000W | 6000W |
|)VX-6400 (| NEW! | | | |

OVX-6400 (NEW!) 6400VA 3PH CATENARY DC/AC INVERTER (600/750 VIN)



OVX-6400-7701

Power [W] 6400 Input Voltage Range [V] 400-1000 Output Voltage Range [V] 80 - 400 Cooling: Internal forced air Dimensions [LxWxH in mm]: 85,8 x 372 x 455,3

Sine wave output voltage

COMPLEMENTARY SOLUTIONS FOR DC/AC INVERTERS

ACI-3000

INRUSH CURRENT LIMITING



 Suitable for DC/AC series: ODS-1500 ODS-3000 ODX-3000 Remote ON/OFF with low standby current Active polarity reversal protection According to EN-50155 and EN-45545

| Suitable for series | 24Vdc | 36Vcd | 48Vdc | 72Vdc | 110Vdc |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|
| ODS-1500 ODS-3000 ODX-3000 | ACI-3000-9333 | ACI-3000-9334 | ACI-3000-9335 | ACI-3000-9336 | ACI-3000-9337 |



Input Voltage Range [V] 16.8 - 138 Output Voltage Range [V] 0 - 400 Cooling: Internal forced air **Dimensions [LxWxH in mm]:** 455,44 x 260 x 84,8



Very high power density Sine wave output voltage Up to 5 units in parallel

Configurable power & soft start Railway version available





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Active catenary surges filter ^{3ph} SiC Technology: high power density Configurable power & soft start Input voltage according to EN50163:2006 and EN50124-2:2017

ACB-3000 NEW! **REDUNDANCY STATIC TRANSFER SWITCH**



Suitable for DC/AC series:

- ODS-750, ODS-1500 and ODS-3000
- Compatible with any 120/230V mains line
- 2ms high speed failure detection and transfer time
- Does not require a synchronised network

AC/DC UPS -**BATTERY CHARGERS**

Power from 100W to 500W

Limitless communication possibilities

SMART functionalities

ECS-100 100W AC/DC UPS BATTERY CHARGER



| ECS-100 | Nominal Voltage | Maximum Rectifier Power | Maximum Rectifier Current | Maximum Battery Current | Battery Floating Voltage | Battery Cut off Voltage | Charging current selecion l1 | Charging current selecion I2 | Charging current selecion 13 | Charging current selecion I4 |
|--------------|--------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| ECS-100-5173 | 12V | 100W | 7.35A | 12A | 13.6V | 10V | 1.0A | 1.2A | 2.4A | 4.8A |
| ECS-100-5177 | 24V | 100W | 3.68A | 6A | 27.2V | 20V | 0.5A | 0.6A | 1.2A | 2.4A |
| ECS-100-5179 | 48V | 100W | 1.84A | ЗA | 54.4V | 40V | 0.22A | 0.3A | 0.6A | 1.2A |

ECS-200 200W AC/DC UPS BATTERY CHARGER



Power [W] 200 - 230 Input Voltage Range [V] ±20% Output Voltage Range [V] 12 - 57.6 **Cooling:** Natural convection **Dimensions [LxWxH in mm]:** 100 x 220 x 45

KEY FEATURES High reliability Discharged battery cut off

| ECS-200 | Nominal Voltage | Maximum Rectifier Power | Maximum Rectifier Current | Maximum Battery Current | Battery Floating Voltage | Battery Cut off Voltage | Charging current selecion l1 | Charging current selecion I2 | Charging current selecion I3 | Charging current selecion I4 |
|--------------|--------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| ECS-200-5183 | 12V | 200W | 14.7A | 20A | 13.6V | 10V | 2.0A | 2.4A | 4.8A | 9.6A |
| ECS-200-5187 | 24V | 225W | 8.30A | 15A | 27.2V | 20V | 1.0A | 1.2A | 2.4A | 4.8A |
| ECS-200-5189 | 48V | 230W | 4.20A | 6A | 54.4V | 40V | 0.44A | 0.6A | 1.2A | 2.4A |

AC/DC UPS - Battery Chargers



Power [W] 100 Input Voltage Range [V] 88 - 264 Output Voltage Range [V] 12 - 57.6 **Cooling:** Natural convection **Dimensions [LxWxH in mm]:** 100 x 160 x 45



KEY FEATURES

High reliability

Discharged battery cut off





120W SMART UPS BATTERY CHARGER





Power [W] 120 Input Voltage Range [V] 184 - 265

Output Voltage Range [V] 0 - 57.6 Cooling: Natural convection Dimensions [LxWxH in mm]: 247 x 115 x 115

KEY FEATURES



Ethernet network controlled (Web services & SNMP) Battery test, temperature sensor, 10kV I/O isolation Especially designed for IoT applications

| EPS-120 | OUT-1 | Total power | Peak power | Battery | Input isolation | Housing |
|--------------|---------------------|-------------|------------|---------|-----------------|--------------|
| EPS-120-5192 | 48V / 3A 4.6 Apk | 120W | 180W | 48V | 10000Vrms | Plastic case |

EDT-150 150W 3 OUTPUTS SMART UPS BATTERY CHARGER



Power [W] 150 Input Voltage Range [V] 184 - 265 Output Voltage Range [V] 0 - 57.6 Cooling: Natural convection Dimensions [LxWxH in mm]: 247 x 115 x 115

KEY FEATURES

Ethernet network controlled (Web services & SNMP) Battery test, temperature sensor, 30kV I/O isolation Especially designed for IoT applications

| EDT-150 | OUT-1 | OUT-2 | OUT-3 | Total power | Peak power | Battery | Input isola- tion | Housing |
|--------------|---------------------|-----------------------|-------------------------|-------------|------------|---------|----------------------|-------------------|
| EDT-150-5191 | 12V / 16A 25 Apk | 48V / 2.2A 5.2 Apk | 48V / 0.83A 0.83 Apk | 150W | 250W | 12V | 3000Vrms | Aluminium case |

EPS-200 200W SMART UPS BATTERY CHARGER



Power [W] 200 Input Voltage Range [V] 184 - 265 Output Voltage Range [V] 0 - 57.6 **Cooling:** Natural convection Dimensions [LxWxH in mm]: 247 x 115 x 115

KEY FEATURES

Ethernet network controlled (Web services & SNMP) Battery test, temperature sensor, 10kV I/O isolation Especially designed for IoT applications

| EPS-200 | OUT-1 | Total power | Peak power | Battery | Input isolation | Housing |
|--------------|------------------------|-------------|------------|---------|-----------------|--------------|
| EPS-200-5193 | 48V / 5.2A 10.3 Apk | 200W | 400W | 48V | 10000Vrms | Plastic case |

EDS-500 (NEW! **500W DC UPS BATTERY CHARGER**



Power [W] 500 Input Voltage Range [V] 90 - 264 Output Voltage Range [V] 0 - 57.6 Cooling: Natural convection Dimensions [LxWxH in mm]: 186.5 x 87 x 124.4

KEY FEATURES

Battery test Temperature sensor CAN communication

| EDS-500 | Input Voltage | Nominal output voltage | Maximum output power | Maximum output current | Maximum output peak current from battery |
|--------------|---------------|---------------------------|-------------------------|---------------------------|--|
| EDS-500-5243 | 90 264 Vac | 12V | 500W | 36.7A | 50A 30s |
| EDS-500-5247 | 90 264 Vac | 24V | 500W | 18.4A | 30A 30s |
| EDS-500-5249 | 90 264 Vac | 48V | 500W | 9.19A | 15A 30s |
| EDS-500-5251 | 90 264 Vac | 110V | 500W | 4A | 6.5A 30s |

AC/DC UPS - Battery Chargers









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SMART 125V/35A THYRISTOR RECTIFIER

SECURE DC POWER FOR MV/LV SUBSTATIONS





2KW 3PH DC/AC INVERTER, PARALLELIZABLE UP TO 4 UNITS RAILWAY INTEGRATED TRACK MANOEUVRING SYSTEM

15KW (60KW/PK) MECHATRONICS





400W DC/DC CONVERTER, 110VIN/290VOUT **RAILWAY EMERGENCY** VENTILATION

IOT BATTERY CHARGER, DUAL OUTPUT, 200W (400W/PK) SUBSTATIONS



35KW+5KW V/F 3PH INVERTER 750VIN RAILWAY HVAC COMPRESSOR AND FANS POWER SOURCE



3PH AC/DC POWER SUPPLY

UL DC/DC 70V..900VIN 300W (800WPK) **HIGH TECH OIL-FREE AIR CENTRIFUGAL BLOWER**



SECURE DC POWER FOR MV/LV

2KW BATTERY CHARGER, >90% EFFICIENCY **RAILWAY LEVEL CROSSING GATES**



DC/DC CONVERTER, MULTIPLE REDUNDANT OUTPUT **RAILWAY SIGNALING (ERTMS)**

Quick product guide

| DC/DC Converters | | | | | | | | | | |
|-----------------------|-------------|--------------|--------------------------------------|------------------------------|--------------------|---------------------------|---------------------------------------|------|--|--|
| Proc | luct series | Power [W] | Input Voltag | ge Range [V] | Output Voltage [V] | Temperature Range [°C] | Cooling | Page | | |
| F | CCS-60 | 50 - 70 | 9,5 15 14,4 30 21,6 45 | 28,8 60 43,2 90 66 144 | 5, 12, 24, 48 | -25 85 | Natural convection | 17 | | |
| | CRS-60 | 50 - 60 | 9,5 15 18 30 36 60 | 50,4 90 77 144 | 5, 12, 24, 48 | -25 80 | Natural convection | 17 | | |
| - | CTS-60 | 50 - 60 | 14,4 30 21,6 45 28,8 60 | 43,2 90 66 144 | 5, 12, 16, 24, 48 | -25 85 | Natural convection | 18 | | |
| | CKR-2000 | 1920 - 2240 | 28 60 | 66 144 | 12, 24, 48 | -25 70 | Natural convection | 21 | | |
| | CRS-120 | 100 - 140 | 9 15 18 30 36 72 | 50,4 90 77 144 165 275 | 5, 12, 24, 48 | -25 80 | Natural convection | 18 | | |
| SIP | CTS-120 | 100 - 140 | 14,4 30 21,6 47 28,8 60 | 43,2 90 66 144 | 5, 12, 24, 48 | -25 85 | Natural convection | 19 | | |
| - | CLS-120 | 120 | 14,4 | 154 | 12, 24, 48 | -40 85 | Natural convection | 19 | | |
| Same | CRS-240 | 180-280 | 9 15 18 30 36 60 | 50,4 90 77 144 165 275 | 5, 12, 24, 48 | -25 80 | Natural convection | 20 | | |
| Same . | CTS-240 | 180 - 280 | 14,4, 30 21,6 47 28,8 60 | 43,2 90 66 144 132 275 | 5, 12, 24, 48 | -25 85 | Natural convection | 20 | | |
| and the second second | CRS-500 | 500 | 14,4 30 21,6 47 28,8 60 | 43,2 90 66 144 | 24, 48, 110 | -25 70 | Natural convection | 21 | | |
| in a | CRS-1000 | 1000 | 14,4 30 21,6 47 28,8 60 | 43,2 90 66 144 | 24, 48, 72, 110 | -25 70 | Natural convection | 22 | | |
| - | CRS-2000 | 2000 | 14,4, 33,8 21,6 50,4 28,8 67,2 | 43,2 100,8 66 154 | 24, 48, 72, 110 | -25 70 | Internal fan Natural convection | 22 | | |
| | CVS-280 | 280 | 500 | . 1100 | 24, 48, 72, 110 | -25 85 | Natural convection | 23 | | |
| | CBS-10K | 6000 average | | - 138 4Vdc 0.1s) | 500 | -40 85 | Internal forced air | 23 | | |

| | | | DC | C/AC Inve | erters | | | |
|--------------|-------------|----------------------------------|---------------------------|------------------------------|--|---------------------------|--------------------|------|
| Proc | luct series | Apparent Output Power [VA] | Input Voltage R | ange [V] | Output Voltage [V] | Temperature Range [°C] | Cooling | Page |
| S. min | OCS-260 | 260 | 16,8 30 | 33,6 60 50,4 90 77 138 | √ 1ph 120, 230 | -40 70 | Natural convection | 25 |
| • | OPS-260 | 260 | 16,8 30 | 33,6 60 50,4 90 77 138 | √ 1ph 120, 230 | -40 70 | Natural convection | 25 |
| | ODS-750 | 750 | 16,8 30 | 33,6 60 50,4 90 77 138 | → 1ph120, 230 | -25 70 | Internal fan | 26 |
| - | ODS-1500 | 1200 - 1500 | 16,8 30 | 33,6 60 50,4 90 77 138 | √ 1ph120, 230 | -25 70 | Internal fan | 26 |
| 0 | ODS-3000 | 2400 - 4000 | 25.2 15 | 50,4 90 77 138 | → 1ph120, 230 | -25 70 | Internal fan | 27 |
| 1 | ODX-1300 | 1300 | 16,8 3 50,4 9 77 13 | 90 | XXX 3ph 250, 400 | -25 85 | Internal fan | 27 |
| | ODX-3000 | 2400 - 3000 | | 50,4 90 77 138 | XXX 3ph 230, 400 | -25 85 | Internal fan | 28 |
| - | ODX-4500 | 4500 | 50,4 9 70 12 77 13 | 25 | XXX 3ph 400 | -25 85 | Internal fan | 28 |
| \checkmark | ODX-6000 | 4500 - 6000 | , | 50,4 90 77 138 | XXX 3ph 400 | -25 85 | Internal fan | 29 |
| 4 | OVX-6400 | 6400 | 40010 | 00 | ∞ 3ph 80 - 400 | -25 85 | Internal fan | 29 |

| | AC/DC UPS - Battery chargers | | | | | | | | | | |
|----------------|------------------------------|-------------------|--|---------------------------|--------------------|------|--|--|--|--|--|
| Product series | Power [W] | Input Voltage [V] | Output Voltage [V] | Temperature Range [°C] | Cooling | Page | | | | | |
| ECS-100 | 100 | 88 265 | 12, 24, 48 | -25 70 | Natural convection | 31 | | | | | |
| Sector ECS-200 | 200 - 230 | 88 1 33 | 12, 24, 48 | -25 70 | Natural convection | 31 | | | | | |
| EPS-120 | 120 | 184 264 | 48 | -25 70 | Natural convection | 32 | | | | | |
| EPS-200 | 200 | 184 265 | 48 | -25 70 | Natural convection | 32 | | | | | |
| EDT-150 | 150 | 184 264 | Triple output: 12V/16A 48V/2,2A 48V/0,83A | -25 70 | Natural convection | 33 | | | | | |
| EDS-500 | 500 | 90 264 | 12, 24, 48 | -25 70 | Natural convection | 33 | | | | | |

#WeArePremium

After 40 years of history as a company, we have achieved challenges that would have been impossible to accomplish without our team's talent. **The experience provided by our senior members, along with the innovation and freshness of our latest additions, have made us better, faster and stronger**. Premium's values are our compass in our path to achieve the best version of our team. We are guided by:

• Innovation: continuous change and evolution bring top quality and state of the art technology • Flexibility: adaptive ability is one of our strengths. Challenges have no limits.

• Excellence: not losing sight of our strengths while improving our services has turned us into one of the most competitive organizations in the market.

• **Passion**: we like what we do. We design and manufacture meticulously to offer unique technological products.

• **Transparency**: team members integrate our company's approach into their actions and make it their own. Premium's results are its team's outcome.

We also take responsibility for our role as a company in today's world through our commitment and ethical policies. We are aware that every action has an important impact, so **we are committed to make positive social and environmental contributions**. Our intentions come true through supporting the 2030 Plan defined in the United Nations Sustainable Development Goals (SDGs).

Thanks to the effort and continuous improvement on top of mind we transform challenges into sustainable and responsible solutions that will keep powering us to go even further. **Our customers are an essential part of our company's mission**, and that is why we make their challenges ours through innovative power conversion solutions.

Powering Your Challenge







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