



# Premium

Powering Your Challenge



## POWER SUPPLIES EQUIPMENT AND SYSTEMS

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



## DESIGNING AND MANUFACTURING POWER CONVERSION SYSTEMS SINCE 1981

**We offer our solutions to the industrial market, being some of them in high-tech machinery, railway, energy or defense applications.** Having over 35 years of experience and a highly trained team has allowed us to position ourselves as technological leaders in power solutions.

Our product range consists of DC/DC converters, uninterrupted power supplies, DC/AC inverters, AC/DC power supplies and any solution that requires **high reliability from 50W to 50kW**.

We have an extensive range of standard products and we have developed over 800 custom-made designs over the years. We guarantee quality starting in the design and throughout the manufacturing process with the most advanced testing systems. We develop our solutions in compliance with the specifications and regulations that each application requires.

All projects, from the concept, design and until the homologation of the product, are carried out in Barcelona. Our knowhow allows us to develop a product from scratch, reducing costs and delivery times.



### QUALITY

#### ISO9001

All processes in Premium rigorously apply the procedures included in our quality management system based on the ISO 9001 standard. These procedures are permanently subject to revision and updates, in order to achieve continuous improvement and complete satisfaction of our customers and partners.

#### ISO 14001

In Premium we have an environmental management system based on the ISO UNE EN ISO 14001 standard, which we obtained in 2019. We strive to be a sustainable and sensitive company in terms of environment protection. Our commitment to the conservation of the environment has led us to implement a management model where good environmental practices are a matter of great interest

#### CONFLICT MINERALS, ROHS AND REACH

All our products comply with minerals, RoHS and REACH regulations.

## OUR MARKETS



### HIGH TECH INDUSTRY

**Over 35 years offering reliable power systems that make a difference**

The industrial sector is increasingly demanding and when it comes to high technology, specifications and needs increase the complexity of the final products. With the rising of industry 4.0 and the Internet of Things (IoT), applications are specializing and increasingly require a reliable source of energy to make a difference. Our experience allows us to adapt the solution to electrical, format, communications, refrigeration or any other specification.



### ENERGY

**Efficiency and reliability in energy transformation centers**

The proper performance of energy transformation centers is essential and, to Premium, offering a reliable and efficient product is key. Over 35 years in the industry make us the perfect partner for projects in high & medium voltage plants and smart grids applications. We work with leading companies developing innovative products to minimize the loss of power in the electricity network.



### RAILWAY & TRANSPORTATION

**Designed to work under demanding conditions**

We manufacture robust and highly reliable products that meet the demanding regulations and standards of the rail sector offering a long life of the solution.

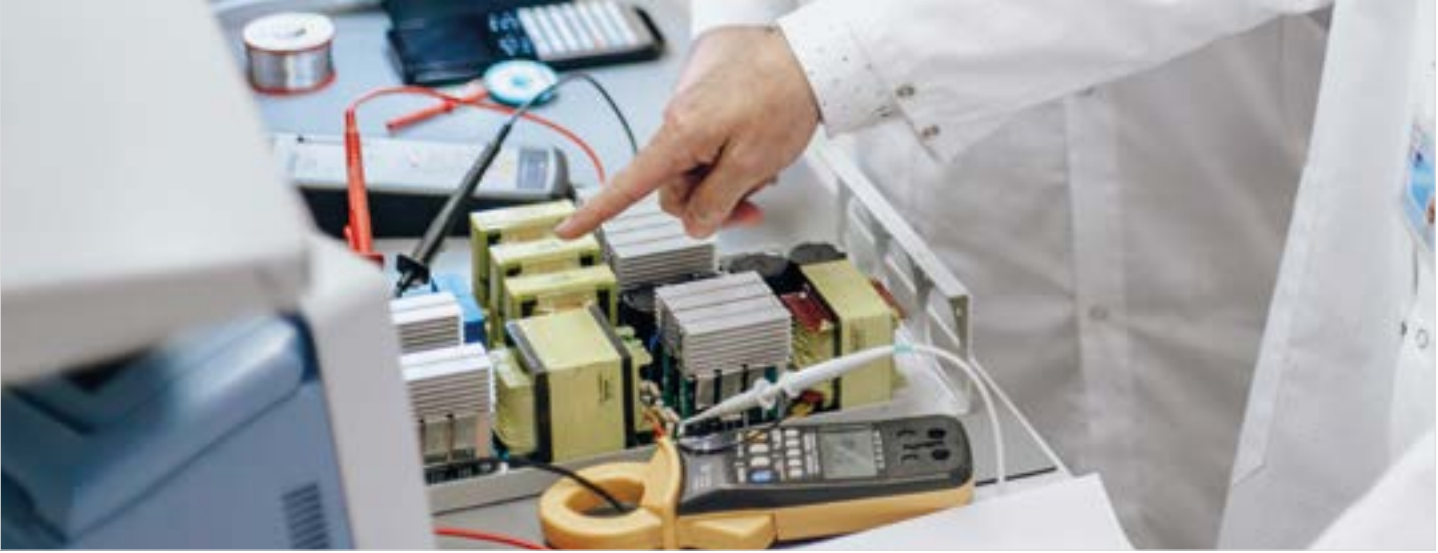
We have a standard range of converters, inverters and power supplies that comply with regulations and we develop custom made products according to the needs of each application. Our knowledge base allows us to develop a product from scratch, reducing costs and delivery times.



### EXTREME ENVIRONMENTS

**Maximum optimization for the most strict and demanding market**

We are aware of the role of an energy conversion system in equipment that works intensively in hostile environments, so we optimize our solutions to meet the most demanding specifications and standards.

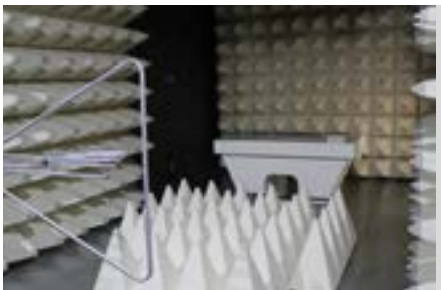


## OUR PRODUCT

Our product range includes converters, inverters, power supplies, UPS, battery chargers, frequency converters, and bidirectional converters from 50W to 50KW. Over 250 models in our standard product catalog and more than 800 custom made designs where we adjust the product to be the ideal solution for each application.

**We offer a 3 year warranty in industrial standard products and 5 years warranty in railway products**

We have the necessary means to ensure the quality of our products. We adapt to the needs of each customer and we are flexible in terms of the tests we carry out both internally, in the field, and through external laboratories.



Some of the testings we can carry out are:

- Electrical and functional tests
- Climatic tests
- Electrical safety
- EMC tests

Our production department counts with automatic verification equipment in order to guarantee the correct functioning of the products before being stored and shipped. In addition, all our products spend several hours in a burn-in room under extreme temperature conditions.



We design and manufacture in Barcelona, which enables us to have control over the entire process from the development to the final packaging, which also allows us to reduce development costs, adapt to the size of each project and guarantee quality in all processes with the most advanced testing systems.



**BORN IN BARCELONA. POWERING THE WORLD**

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## CCS-60

### RAILWAY 50-70W DC/DC CONVERTERS



Power [W] 50 - 70  
 Input Voltage Range [V] 9.5 - 144  
 Output Voltage Range [V] 4.5 - 55.2  
 Cooling: Natural convection  
 Dimensions [LxWxH in mm]: 100 x 160 x 18

#### KEY FEATURES

Low profile  
 Extreme reliability



CSS-60	12 VIN 9.5V ... 15V	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	CCS-60-6551 50W	CCS-60-6555 50W	CCS-60-6571 50W	CCS-60-6559 50W	CCS-60-6563 50W	CCS-60-6567 50W
12Vout	CCS-60-6552 60W	CCS-60-6556 70W	CCS-60-6572 70W	CCS-60-6560 70W	CCS-60-6564 70W	CCS-60-6568 70W
24Vout	CCS-60-6553 60W	CCS-60-6557 70W	CCS-60-6573 70W	CCS-60-6561 70W	CCS-60-6565 70W	CCS-60-6569 70W
48Vout	CCS-60-6554 60W	CCS-60-6558 70W	CCS-60-6574 70W	CCS-60-6562 70W	CCS-60-6566 70W	CCS-60-6570 70W

## 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  
 Wide input/output range combinations



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

## CTS-60

### RAILWAY 50-70W 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  
 Wide input/output  
 range combinations



CTS-60	24VIN 14,4V ... 30V	36VIN 21,6V ... 47V	48VIN 28,8V ... 60V	72VIN 43,2V ... 90V	110VIN 66V ... 144V
5Vout	CTS-60-6835 50W	CTS-60-6851 50W	CTS-60-6839 50W	CTS-60-6843 50W	CTS-60-6847 50W
12Vout	CTS-60-6836 60W	CTS-60-6852 60W	CTS-60-6840 60W	CTS-60-6844 60W	CTS-60-6848 60W
16Vout	CTS-60-6856 60W	Available upon request	Available upon request	Available upon request	CTS-60-6855 60W
24Vout	CTS-60-6857 60W	CTS-60-6853 60W	CTS-60-6841 60W	CTS-60-6845 60W	CTS-60-6849 60W
48Vout	CTS-60-6838 60W	CTS-60-6854 60W	CTS-60-6842 60W	CTS-60-6846 60W	CTS-60-6850 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

Extreme reliability  
 Easy install: wall mount,  
 DIN rail, rack mount



CRS-120	12VIN 9V ... 15V	24VIN 18V ... 30V	48VIN 36V ... 72V	72VIN 50,4V ... 90V	110VIN 77V ... 144V	220VIN 165V ... 275V
5Vout	CRS-120-6761 100W	CRS-120-6765 100W	CRS-120-6769 100W	CRS-120-6773 100W	CRS-120-6777 100W	CRS-120-6781 100W
12Vout	CRS-120-6762 100W	CRS-120-6766 120W	CRS-120-6770 120W	CRS-120-6774 120W	CRS-120-6778 120W	CRS-120-6782 120W
24Vout	CRS-120-6763 120W	CRS-120-6767 120W	CRS-120-6771 140W	CRS-120-6775 140W	CRS-120-6779 140W	CRS-120-6783 140W
48Vout	CRS-120-6764 140W	CRS-120-6768 140W	CRS-120-6772 140W	CRS-120-6776 140W	CRS-120-6780 140W	CRS-120-6784 140W

## CTS-120

### RAILWAY 100-140W DC/DC CONVERTERS



Power [W] 100 - 140  
 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

#### KEY FEATURES

Extreme reliability  
 Easy install: wall mount,  
 DIN rail, rack mount



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 120W	CTS-120-6886 120W	CTS-120-6870 120W	CTS-120-6874 120W	CTS-120-6878 120W
24Vout	CTS-120-6867 120W	CTS-120-6887 140W	CTS-120-6871 140W	CTS-120-6875 140W	CTS-120-6879 140W
48Vout	CTS-120-6868 120W	CTS-120-6888 140W	CTS-120-6872 140W	CTS-120-6876 140W	CTS-120-6880 140W

## CRS-240

### 180-280W DC/DC CONVERTERS



Power [W] 180 - 280  
 Input Voltage Range [V] 9 - 275  
 Output Voltage Range [V] 4.5 - 55.2  
 Cooling: Natural convection  
 Dimensions [LxWxH in mm]: 100 x 220 x 38,5

#### KEY FEATURES

Extreme reliability  
 Easy install: wall mount,  
 DIN rail, rack mount



CRS-240	12 VIN 9.5V ... 15V	24VIN 18V ... 30V	48VIN 36V ... 60V	72VIN 50,4V ... 90V	110VIN 77V ... 144V	110VIN 77V ... 144V
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

Extreme reliability  
 Easy install: wall mount,  
 DIN rail, rack mount



CTS-240	24VIN 14,4V ... 30V	36VIN 21,6V ... 47V	48VIN 28,8V ... 60V	72VIN 43,2V ... 90V	110VIN 66V ... 144V	220VIN 132 ... 275V
5Vout	CTS-240-6555 180W	CTS-240-6572 180W	CTS-240-6559 180W	CTS-240-6563 180W	CTS-240-6567 180W	Available upon request
12Vout	CTS-240-6556 240W	CTS-240-6573	CTS-240-6560 240W	CTS-240-6564 240W	CTS-240-6568 240W	Available upon request
24Vout	CTS-240-6557 240W	CTS-240-6574 280W	CTS-240-6561 280W	CTS-240-6565 280W	CTS-240-6569 280W	CTS-240-6678 280W
48Vout	CTS-240-6558 240W	CTS-240-6575 280W	CTS-240-6562 280W	CTS-240-6571 280W	CTS-240-6570 280W	Available upon 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

Configurable input and output  
 redundancy  
 Railway version available



CKR-2000	B - SUB-RACK	B - SUB-RACK TOTAL POWER	B - SUB-RACK REDUN. N+1	MÓDULOS A / A MODULES 48VIN (36V ÷ 60V)	MÓDULOS A / A MODULES 110VIN (77V ÷ 144V)
5Vout	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  
 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

#### KEY FEATURES

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



CRS-500	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-500-6455 500W	CRS-500-6467 500W	CRS-500-6458 500W	CRS-500-6461 500W	CRS-500-6464 500W
48Vout	CRS-500-6456 500W	CRS-500-6468 500W	CRS-500-6459 500W	CRS-500-6462 500W	CRS-500-6465 500W
110Vout	CRS-500-6457 500W	Available upon request	Available upon request	Available upon request	Available upon request

## CRS-1000

### 1000W DC/DC CONVERTERS



Power [W] 1000  
 Input Voltage Range [V] 14.4 - 144  
 Output Voltage Range [V] 21.6 - 126.4  
 Cooling: Natural convection, Conduction, Internal forced air  
 Dimensions [LxWxH in mm]: 266 x 180 x 54,8

#### 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 upon request	Available upon request	Available upon request
110Vout	CRS-1000-6492 1000W	Available upon request	Available upon request	Available upon request	CRS-1000-6493 1000W



## OCS-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 x 220 x 40

#### KEY FEATURES

- Extreme reliability
- Sine wave output voltage
- Railway version available



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

## 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

#### KEY FEATURES

- High Power density
- Sine wave output voltage
- Railway version available



ODS-750	12VDC 9.5 ... 15V	24VDC 16.8 ... 30V	36VDC 25.2 ... 45V	48VDC 33.6 ... 60V	72VDC 50.4 ... 90V	110VDC 77 ... 138V
120Vac	ODS-750-7281 450W	ODS-750-7283 750W	ODS-750-7284 750W	ODS-750-7285 750W	ODS-750-7286 750W	ODS-750-7287 750W
230Vac	ODS-750-7271 450W	ODS-750-7273 750W	ODS-750-7274 750W	ODS-750-7275 750W	ODS-750-7276 750W	ODS-750-7277 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

#### KEY FEATURES

Very High Power density,  
 Configurable power  
 Sine wave output voltage  
 Railway version available



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

## ODS-3000

### INDUSTRIAL & RAILWAY 3000VA DC/AC INVERTERS



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

#### KEY FEATURES

Very High Power density,  
 Configurable power  
 Sine wave output voltage  
 Railway version available



ODS-3000	24VDC 16.8 ... 30V	36VDC 25.2 ... 45V	48VDC 33.6 ... 60V	72VDC 50.4 ... 90V	110VDC 77 ... 138V	110VDC 77 ... 138V
120Vac	ODS-3000-7163 2400W	ODS-3000-7164 2500W	ODS-3000-7165 2500W	ODS-3000-7166 2500W	ODS-3000-7167 2500W	ODS-3000-167 2500W
230Vac	ODS-3000-7153 2400W	ODS-3000-7154 3000W	ODS-3000-7155 3000W	ODS-3000-7156 3000W	ODS-3000-7157 3000W	ODS-3000-7177 4000W

## ODX-1300

### 3ph 1300VA DC/AC INVERTERS



Power [W] 1100  
 Input Voltage Range [V] 16.8 - 140  
 Output Voltage Range [V] 0 - 400  
 Cooling: Internal forced air  
 Dimensions [LxWxH in mm]: 315 x 178 x 66,5

#### KEY FEATURES

Very High Power density,  
 Configurable power & Soft start  
 Sine wave output voltage  
 Railway version available



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

## ODX-3000

### 3ph 3000VA DC/AC INVERTERS



Power [W] 2400 - 3000  
 Input Voltage Range [V] 16.8 - 138  
 Output Voltage Range [V] 0 - 400  
 Cooling: Internal forced air  
 Dimensions [LxWxH in mm]: 392,87 x 220 x 80,5

#### KEY FEATURES

Very High Power density,  
 Configurable power & Soft start  
 Sine wave output voltage  
 Railway version available



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

#### KEY FEATURES

Very High Power density,  
 Configurable power & Soft start  
 Sine wave output voltage  
 Railway version available



ODX-4500	72VDC 50 ... 90V	110VDC 70 ... 125V	110VDC 77 ... 138V
400Vac	ODX-4500-7425 4000W	ODX-4500-7426 4000W	ODX-4500-7427 4000W

**NEW!**



## ODX-6000

### 3ph 6000VA DC/AC INVERTERS



Power [W] 4500 - 6000  
 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

#### KEY FEATURES

Very High Power density,  
 Configurable power & Soft start  
 Sine wave output voltage  
 Railway version available



ODX-6000	24 VDC 16.8 ... 30V	48 VDC 33.6 ... 60V	72 VDC 50.4 ... 90V	110 VDC 77 ... 138V
400Vac	ODX-6000-7503 4500W	ODX-6000-7505 6000W	ODX-6000-7506 6000W	ODX-6000-7507 6000W

## ECS-100

### 100W AC/DC UPS BATTERY CHARGER



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



ECS-100	NOMINAL VOLTAGE	MAXIMUM VOLTAGE	MAXIMUM POWER	BATTERY FLOATING VOLTAGE	BATTERY CUT OFF VOLTAGE	CHARGING CURRENT SELECTION I1	CHARGING CURRENT SELECTION I2	CHARGING CURRENT SELECTION I3	CHARGING CURRENT SELECTION I4
ECS-100-5173	12V	7.35A	100W	13.6V	10V	1.0A	1.2A	2.4A	4.8A
ECS-100-5177	24V	3.68A	100W	27.2V	20V	0.5A	0.6A	1.2A	2.4A
ECS-100-5179	48V	1.84A	100W	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]  $\pm 20\%$   
 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 VOLTAGE	MAXIMUM POWER	BATTERY FLOATING VOLTAGE	BATTERY CUT OFF VOLTAGE	CHARGING CURRENT SELECTION I1	CHARGING CURRENT SELECTION I2	CHARGING CURRENT SELECTION I3	CHARGING CURRENT SELECTION I4
ECS-200-5183	12V	14.7A	200W	13.6V	10V	2.0A	2.4A	4.8A	9.6A
ECS-200-5187	24V	8.3A	225W	27.2V	20V	1.0A	1.2A	2.4A	4.8A
ECS-200-5189	48V	4.2A	230W	54.4V	40V	0.44A	0.6A	1.2A	2.4A



## EPS-120

### 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,  
 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
NP0719	48V / 3A 4.6A <sub>pk</sub>	120W	180W	48V	10000 V <sub>rms</sub>	Plastic 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,  
 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
NP0716	48V / 5.2A 10.3A <sub>pk</sub>	200W	400W	48V	10000 V <sub>rms</sub>	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]: 265,5 x 115 x 90,2

#### KEY FEATURES

Ethernet network controlled,  
 Battery test, Temperature sensor,  
 10kV I/O isolation  
 Especially designed for IoT applications



EDT-150	OUT-1	OUT-2	OUT-3	TOTAL POWER	PEAK POWER	BATTERY	INPUT ISOLATION	HOUSING
NP0715	12V / 16A 25A <sub>pk</sub>	48V / 2.2A 5.24A <sub>pk</sub>	48V / 0.83A 0.83A <sub>pk</sub>	150W	250W	12V	3000 V <sub>rms</sub>	Aluminium case











## CUSTOM-MADE SOLUTIONS

If our standard product range does not fit a project's specifications, we can modify it or work on a whole new solution.

We design, assemble and verify prototypes in our Research and Development Center in Barcelona, where the engineering team also works on the redesign and product modifications to adjust it to the exact needs of each project and achieve the best performance-quality-price ratio. Our knowledge base allows us to develop a product from scratch and over 35 years of experience allow us to do it quickly.



### TECHNICAL CAPABILITIES

-  Power from 50W up to 50kVA (very high power density, high frequency)
-  Efficiencies up to 95%
-  Input voltages up to 460Vac (1...3-Ph) and 1500Vdc | Output voltages up to 440Vac (1...3-Ph) and 750Vdc
-  Multiple and Wide input and output voltages
-  Up to IP68
-  Wide operating temperatures (-40°... 85°)
-  10kV isolation (surges of  $\pm 20\text{kV}$  1,2/50 $\mu\text{s}$ )
-  RS232, RS485, I2C, Modbus, CANbus, Ethernet, Web Embedded Server, Profibus, etc.



**Premium**  
Powering Your Challenge

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