



POWER MODULE 10KW



FEATURES

- ◆ Up to 10kW Output Capacity.
- ◆ Designed to Optimise Energy Conversion Efficiency.
- ◆ Electrical Isolation Between High and Low Voltage Components.
- ◆ Prevent Short Circuits and Protect Against Overcurrent Conditions.
- ◆ Efficient Thermal Management.

APPLICATIONS



Fast Charging Station |
On-board Charger |
Battery Charger

TECHNICAL SPECIFICATIONS

AC Input

Voltage	380 VAC \pm 10% (3P+N+PE)
Voltage Range	260 to 520 VAC
Frequency	50 / 60 Hz (Rated 50Hz)
Power Factor	\geq 0.99 (100% Load)
Total Harmonic Distortion (THD)	\leq 5% (50% to 100% Load)

DC Output

Voltage Range	20 to 120 VDC
Constant Power Range	100 to 120 VDC
Current Range	2 to 100 A
Power Output	10 kW
Voltage Regulation Accuracy	$\leq \pm$ 0.5%
Current Regulation Accuracy	$\leq \pm$ 1%
Current Sharing Imbalance	$\leq \pm$ 5%
Effective Value Coefficient of Output Ripple	$\leq \pm$ 0.5%
Voltage Ripple Factor	$\leq \pm$ 1%
Peak Efficiency	\geq 95%
Soft Start Time	\leq 8 s

Interface

Communication Protocol	CAN
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Protection

Input Over Voltage Protection	490 VAC \pm 10%
Input Under Voltage Protection	270 VAC \pm 10%
Short Circuit Protection	Self-Roll Back Protection

Environment

Operating Temperature	-30°C to 75°C (>55°C Output Derating & >75°C Shutdown)
Storage Temperature	-40°C to 75°C
Relative Humidity	5 to 95% No Condensation
Altitude	\leq 2000 m, derating above 2000 m
Cooling Method	Fan Cooling

Mechanical

Address Setting	Digital Screen Display & Button Operation
Dimension (L x W x H)	400 X 218 X 84 mm
Weight	< 15 kg

Other Operational Specs

Mean Time Between Failures (MTBF)	500000 Hours
Standby Power Consumption	< 10 W

