


POWER MODULE 20KW



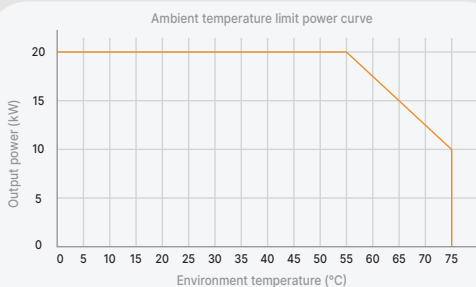
FEATURES

- ◆ Up to 20kW 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

OUTPUT GRAPH



TECHNICAL SPECIFICATIONS

AC Input

Voltage	380 VAC \pm 10% (3P+N+PE)
Voltage Range	285 to 475 VAC
Frequency	50 Hz
Power Factor	\geq 0.99
Total Harmonic Distortion (THD)	\leq 5%

DC Output

Voltage Range	200 to 1000 VDC
Constant Power Range	250 to 500 VDC 500 to 1000 VDC <i>(High and Low Mode Auto Switching)</i>
Current Range	0.5 to 80 A
Power Output	20 kW
Voltage Regulation Accuracy	$\leq \pm$ 0.5%
Current Regulation Accuracy	$\leq \pm$ 1%
Current Sharing Imbalance	$\leq \pm$ 5%
Peak Efficiency	\geq 96%

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)
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)	460 X 248 X 84 mm
Weight	< 12 kg

Other Operational Specs

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