



Features:

- Up to 20kW, 30kW & 40kW 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.**

Application

Fast Charging Station | On-board Charger | Battery Charger

Technical Specifications	20kW	30kW	40kW
AC Input			
Voltage	380 VAC ± 10% (3P+N+PE)		
Voltage Range	285 to 475 VAC		
Frequency	50 Hz	50 to 65Hz	
Power Factor	≥ 0.99		
Total Harmonic Distortion (THD)	≤ 5%		
DC Output			
Voltage Range	200 to 1000 VDC	50 to 1000 VDC	
Constant Power Range	250 to 500 VDC & 500 to 1000 VDC		
Current Range	0.5 to 80 A	0.5 to 120 A	0.5 to 134 A
Power Output	20 kW	30 kW	40 kW
Voltage Regulation Accuracy	≤ ± 0.5%		
Current Regulation Accuracy	≤ ± 1%		
Current Sharing Imbalance	≤ ± 5%		
Peak Efficiency	≥ 96%		
Interface			
Communication Protocol	CAN		
Protection			
Input Over Voltage Protection	490 VAC ± 10%		
Input Under Voltage Protection	270 VAC ± 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	≤ 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	437.5 X 336 X 84 mm	
Weight	< 12 kg	< 16 kg	< 20 kg
Other Operational Specs			
Mean Time Between Failures (MTBF)	500000 Hours		
Standby Power Consumption	< 10 W	< 13 W	< 10 W

