

# POWER MODULE 40KW



## FEATURES

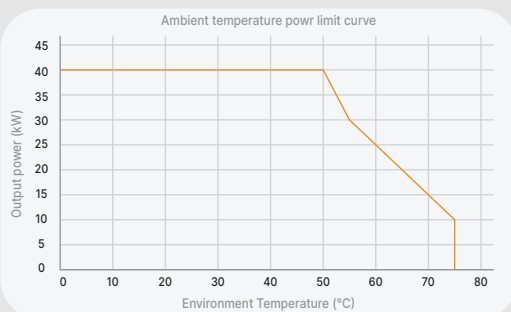
- ◆ Up to 40kW Output Capacity.
- ◆ Designed to Optimise Energy Conversion Efficiency.
- ◆ Electrical Isolation Between High and Low Voltage Components.
- ◆ Prevent Short Circuits and Protect Against Overcurrent Conditions.
- ◆ Efficient Thermal Management.

## 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 to 65Hz
Power Factor	$\geq$ 0.99
Total Harmonic Distortion (THD)	$\leq$ 5%

### DC Output

Voltage Range	50 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 134 A
Power Output	40 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)	437.5 X 336 X 84 mm
Weight	< 20 kg

### Other Operational Specs

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



+91-9016028817



systems@bacancy.com



bacancysystems.com