

Omega Series X v2 6K-48 OFF-GRID INVERTER



Features

- Zero (0 ms) transfer time to protect mission-critical loads such as servers and ATMs.
- High PV input voltage range.
- Removable LCD control module with multiple communications.
- Selectable high power charging current.
- Built-in Wi-Fi for mobile monitoring (App is available).
- Configurable AC/Solar input priority via LCD setting.
- Reserved communication port for BMS (RS485 or CAN-BUS).
- Parallel operation up to 9 units.

Technical Specifications

Rated Power	6000 VA / 6000 W	
Parallel Capability	Up to 9 units	
GRID INPUT		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz / 60 Hz (Auto sensing) \pm 4 Hz	
Power Factor	\geq 0.98 @ Nominal Voltage (100% Load)	
THDi	\leq 10%	
LOAD OUTPUT		
AC Voltage Regulation (Line&Batt. Mode)	230 VAC \pm 5%	
Frequency Range (Synchronized Range)	46 ~ 54 Hz or 56 ~ 64 Hz	
Frequency Range (Batt. Mode)	50 Hz \pm 0.1 Hz or 60 Hz \pm 0.1 Hz	
Harmonic Distortion	\leq 3 % THD (Linear Load); \leq 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	0 ms
	Inverter to Bypass	4 ms (Typical)
Waveform	Pure sine wave	
No Load Consumption	75 W	

Technical Specifications

EFFICIENCY	
Line Mode	94%
ECO Mode	98%
Battery Mode	92%
BATTERY	
Battery Voltage	40 ~ 66 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR INPUT	
Solar Charger Type	MPPT
Maximum PV Array Power	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	120 A
Maximum AC Charge Current	120 A
PHYSICAL	
Dimension, (D x W x H)	140 x 295 x 468 mm
Net Weight	12 kg
Communication Interface	RS232, USB, DRY CONTACT, Wi-Fi, RS485
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Product specifications are subject to change without further notice.