

Omega Series UM v5 4K-6K OFF-GRID INVERTER



Features

Dual outputs for smart load management

There are two outputs available. The second output can be scheduled on/off, setting cut-off voltage or SOC and discharging time via LCD setting. It facilitates users smart load control.

Maximum PV input current 27 A

Designed with 27 A PV input current, Omega UM v5 is compatible to the market trend of increased Imp in solar panel.

Wide PV input voltage range 60 VDC ~ 450V DC

Now, Omega UM v5 allows wide PV input voltage range from 60 VDC to 450 VDC. This features allow less solar panel required in the system and save space.

Detachable LCD control module with various communications

This detachable LCD control module can be turned to remote panel. Users can install the LCD panel in accessible area away from inverter up to 20 meters.

Integrated Wi-Fi interface with Mobile App

Omega UM v5 series is integrated Wi-Fi interface ready for mobile monitoring. Mobile monitoring can be carried out through mobile applications in both iOS and Android. Users can track the history of the unit information such as energy generation and change parameter settings timely.

Supports USB On-the-Go function

Omega UM v5 series supports USB On-the-Go function to facilitate data upload/download.

Reserved communication port (RS-485, CAN-BUS or RS-232) for BMS

This third generation inverter is reserved communication port for BMS. For the detailed information, please contact sales directly.

Battery equalization extends lifecycle

This inverter charger is built in battery equalization function. This function will help remove sulfation to optimize battery performance and even extend lifecycle.

Battery independency

Inverter can keep supplying power to the loads from PV energy or the grid without battery connected.

User-friendly LCD operation

Users can easily set up or change the charging current, output source and charger source prioritization through LCD control panel to optimize inverter performance.

Replaceable fan design

Omega UM v5 series is designed with replaceable fan. It will simplify the maintenance and reduce the maintenance cost.

Technical Specifications

MODEL	Omega UM v5 4K	Omega UM v5 6K
Rated Power	4000 VA / 4000 W	6000 VA / 6000 W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)	
Frequency Range	50 / 60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 10%	
Surge Power	8000 VA	12000 VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
No Load Consumption	40 W	75 W
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	5000 W	6000 W
MPP Range @ Operating Voltage	60 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27 A	
Maximum Solar Charge Current	120 A	
Maximum AC Charge Current	100 A	
Maximum Charge Current	120 A	
PHYSICAL		
Dimension, (D x W x H)	115 x 300 x 435 mm	
Net Weight	9.0 Kg	10.0 Kg
Communication Interface	USB / RS-232 / RS-485 / Wi-Fi / Dry-contact	
OPERATING 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.