

Omega Series LV 6.5K-48

LOW VOLTAGE INVERTER



Main Features

- Status indication with RGB lights.
- Built-in Wi-Fi for mobile monitoring (Android / iOS App is available).
- Supports USB On-the-Go function.
- Reserved communication port for BMS (RS485, CAN-BUS or RS232).
- Replaceable fan design for ease of maintenance.
- Battery independent design.
- Configurable AC/PV output usage timer and prioritization.
- Selectable high power charging current.
- Selectable input voltage range for home appliances and personal computers.
- Compatible to Utility Mains or generator input.
- Built-in anti-dust kit.
- Optional DC output for DC fan, LED bulb, router and so on.
- Parallel operation with 6 units.



RGB light:

Different color to present output source from PV, Grid or battery and battery charge/discharge status

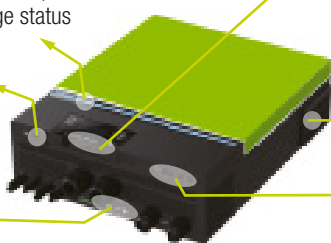


Communication for Remote panel



Parallel connectors:

Maximum 6 units in parallel



Diverse communications:

USB On-the-Go function, Dry contact and BMS communication



Anti-dust filter:

Increase product reliability in harsh environment

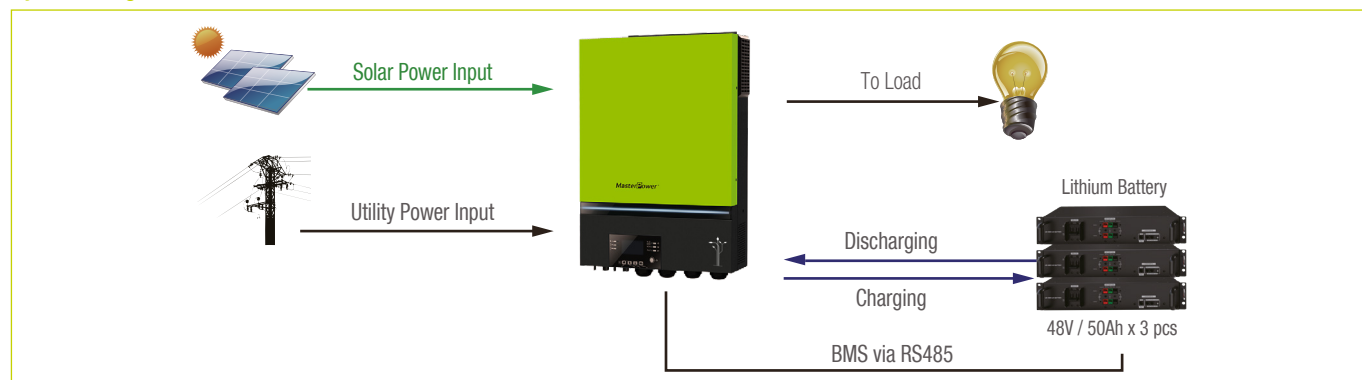


DC output connectors:

Connect to DC fan, LED bulb or router



System Diagram



Lithium-iron Battery Solution

Inverter Model	Rated Load (Watt)	Battery Model	Usable Capacity (Wh)	BAT x 1	BAT x 2	BAT x 3	BAT x 4	BAT x 5	BAT x 6	BAT x 7	BAT x 8
Omega LV 6.5K-48	3250	US2000	2200	N/A	73	109	146	182	219	255	292
	3250	LI0-4805	2400	39	79	119	159	199	239	279	319
	3250	LI0-4810	4800	79	159	239	319	398	478	558	638
	6500	US2000	2200	N/A	N/A	54	73	91	109	127	146
	6500	LI0-4805	2400	N/A	39	59	79	99	119	139	159
	6500	LI0-4810	4800	39	79	119	159	199	239	279	319

Technical Specifications

Rated Power	6500 VA / 6500 W
Parallel Capability	Yes, up to 6 units
INPUT	
Voltage	120 VAC
Selectable Voltage Range	90 - 140 VAC (For Personal Computers); 80 - 140 VAC (For Home Appliances)
Frequency Range	50 Hz / 60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	120 VAC $\pm$ 5%
Surge Power	15000 VA
Efficiency (Peak)	90% ~ 93%
Transfer Time	15 ms (For Personal Computers); 20 ms (For Home Appliances)
Waveform	Pure sine wave
DC Voltage (Optional)	12 VDC $\pm$ 5%, 100 W
No Load Consumption	75 W
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Open Circuit Voltage	250 VDC
Maximum PV Array Power	8000 W (4000 W x 2)
MPPT Range @ Operating Voltage	90 ~ 230 VDC
Maximum Solar Charge Current	120 A
Maximum AC Charge Current	120 A
Maximum Charge Current	120 A
PHYSICAL	
Dimensions, (D x W x H)	147.4 x 432.5 x 553.6 mm
Net Weight	18.4 kg
Communication Interface	USB / RS232 / RS485 / WiFi / 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
STANDAR	
Compliance Safety	UL

Product specifications are subject to change without further notice.