OFF-GRID



Omega Series PRO 8K-48

OFF-GRID INVERTER





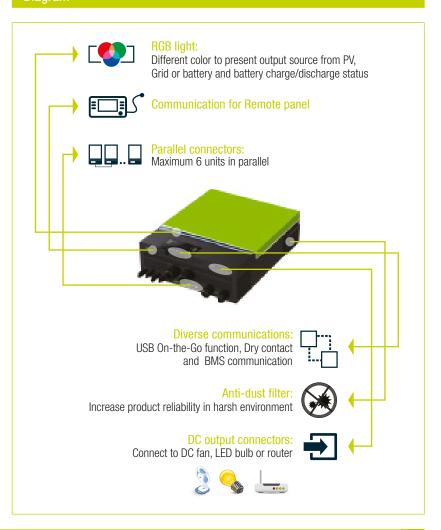




- · Customizable status LED bar with RGB lights.
- Built-in wifi for mobile monitoring (Android/iOS Apps are available).
- Supports USB On-the-Go function.
- Reserved communication port for BMS (RS485, CAN-BUS or RS232).
- Replaceable fan design for ease of maintenance.
- Battery independent design.
- 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 up to 6 units.



Diagram









NPUT 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 ± 5% Surge Power 16000 VA 50 % - 33% Surge Power 16000 VA 50 % - 33% Surge Power 16000 VA 50 % - 33% Surge Power 15 ms (For Personal Computers); 20 ms (For Home Appliances) Valve Sine wave Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W Voltage 14 VDC Voltage 15 VDC Voltage 16 VDC	Rated Power	8000 VA / 8000 W
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 ± 5% Surge Power 16000 VA Efficiency (Peak) 90 % - 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W No Load Consumption 75 W Battery Voltage No Load Consumption 75 W Battery Voltage 48 VDC Ploating Charge Voltage 54 VDC Overcharge Protection 66 VDC SOLAR CHARGER & AC CHARGER Solar Charge Voltage MPPT Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Open Circuit Voltage 800 W (4000 W x 2) MPPT Range @ Operating Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum Solar Charge Current 120 A Maximum Solar Charge Current	Parallel Capability	Yes, up to 6 units
Selectable Voltage Range 170 - 280 VAC (For Personal Computers); 90 - 280 VAC (For Home Appliances) Frequency Range 50 / 60 Hz (Auto sensing) OUTPUT 230 VAC ± 5% Surge Power 16000 VA Efficiency (Peak) 90 % - 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W No Load Consumption 75 W Battery Voltage Floating Charge Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 66 VDC SOLAR CHARGER & AC CHARGER MPPT Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 180 VDC Maximum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum Charge Current 120 A </th <th>INPUT</th> <th></th>	INPUT	
So / 60 Hz (Auto sensing)	Voltage	230 VAC
OUTPUT AC Voltage Regulation (Batt. Mode) 230 VAC ± 5% Surge Power 16000 VA Efficiency (Peak) 90 % - 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W No Load Consumption 75 W Battery Voltage Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 66 VDC SOLAR CHARGER & AC CHARGER MPPT Maximum PV Array Open Circuit Voltage MPPT Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 180 VDC Maximum AC Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PVYSICAL PVSICAL Dimensions, (D x W x H) 147.4 x 432.5 x 553.6 mm Net Weight 18.4 kg Comm	Selectable Voltage Range	170 - 280 VAC (For Personal Computers); 90 - 280 VAC (For Home Appliances)
AC Voltage Regulation (Batt. Mode) Surge Power 16000 VA Efficiency (Peak) 90 % ~ 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W No Load Consumption 75 W BATTERY Battery Voltage 148 VDC Floating Charge Voltage 15 dv VDC Overcharge Protection 66 VDC SOLAR CHARGER & AC CHARGER Solar Charger Type Maximum PV Array Open Circuit Voltage Maximum PV Array Power Maximum PV Array Power Maximum PV Array Power Maximum PV Array Power Maximum Solar Charge Current Maximum AC Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 Charge Temperature 140 Charge Temperature 150 Charge Temperature 170 Charge Temperature	Frequency Range	50 / 60 Hz (Auto sensing)
Surge Power 16000 VA Efficiency (Peak) 90 % ~ 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 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 Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Charge Current 120 A Maximum Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 10 A Dimensions, (D x W x H) 147.4 x 4 x 42.5 x 553.6 mm Net Weight 18.4 kg Communication Interface USB / RS232 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT </th <th>OUTPUT</th> <th></th>	OUTPUT	
Efficiency (Peak) 90 % - 93% Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 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 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 - 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 120 A 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 9	AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%
Transfer Time 15 ms (For Personal Computers); 20 ms (For Home Appliances) Waveform Pure sine wave Optional DC Voltage 12 VDC ± 5%, 100 W No Load Consumption 75 W BATTERY Battery Voltage 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 500 VDC Maximum PV Array Open Circuit Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 120 A Maximum AC Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 147.4 x 432.5 x 553.6 mm Dimensions, (D x W x H) 147.4 x 432.5 x 553.6 mm Net Weight USB / RS232 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing) Operating Tempe	Surge Power	16000 VA
Waveform Pure sine wave Optional DC Voltage 12 VDC ± 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 & AC CHARGER Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Maximum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 147.4 x 432.5 x 553.6 mm Dimensions, (D x W x H) 147.4 x 432.5 x 553.6 mm Net Weight 0.89 / RS23 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT 4.99 / RS23 / RS485 / WiFi / Dry-contact Humidity 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to	Efficiency (Peak)	90 % ~ 93%
Optional DC Voltage 12 VDC ± 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 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 147.4 x 432.5 x 553.6 mm Use Weight 18.4 kg Communication Interface USB / RS23 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Transfer Time	15 ms (For Personal Computers); 20 ms (For Home Appliances)
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 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum AC Charge Current 120 A Maximum Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 1 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 4 Humidity 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Waveform	Pure sine wave
BATTERY Battery Voltage	Optional DC Voltage	12 VDC ± 5%, 100 W
## Battery Voltage ## STAUDE Floating Charge Voltage 54 VDC	No Load Consumption	75 W
Floating Charge Voltage 54 VDC	BATTERY	
Overcharge Protection 66 VDC SOLAR CHARGER & AC CHARGER Solar Charger Type Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 147.4 x 432.5 x 553.6 mm Net Weight 18.4 kg Communication Interface USB / RS232 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Battery Voltage	48 VDC
SOLAR CHARGER & AC CHARGER Solar Charger Type Maximum PV Array Open Circuit Voltage Maximum PV Array Power Maximum PV Array Power Mover Minimum Required Start-up Voltage Minimum Required Start-up Voltage Maximum Solar Charge Current Maximum AC Charge Current Maximum AC Charge Current Maximum AC Charge Current Maximum Charge Curre	Floating Charge Voltage	54 VDC
Solar Charger Type MPPT Maximum PV Array Open Circuit Voltage 500 VDC Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 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 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Overcharge Protection	66 VDC
Maximum PV Array Open Circuit Voltage Maximum PV Array Power Mover Standard Maximum PV Array Power Mover Standard Mover S	SOLAR CHARGER & AC CHARGER	
Maximum PV Array Power 8000 W (4000 W x 2) MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL 120 A 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 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Solar Charger Type	MPPT
MPPT Range @ Operating Voltage 60 ~ 450 VDC Minimum Required Start-up Voltage 180 VDC Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum 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 STANDARD	Maximum PV Array Open Circuit Voltage	500 VDC
Minimum Required Start-up Voltage Maximum Solar Charge Current 120 A Maximum AC Charge Current 120 A Maximum Charge Current 120 A Meximum Charge Current 120 A PHYSICAL Dimensions, (D x W x H) 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 STANDARD	Maximum PV Array Power	8000 W (4000 W x 2)
Maximum Solar Charge Current Maximum AC Charge Current 120 A Maximum Charge Current 120 A PHYSICAL Dimensions, (D x W x H) 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 5TANDARD	MPPT Range @ Operating Voltage	60 ~ 450 VDC
Maximum AC Charge Current Maximum Charge Current PHYSICAL Dimensions, (D x W x H) Net Weight Communication Interface USB / RS232 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT Humidity Storage Temperature Storage Temperature 120 A 120 A 120 A 120 A 120 A 120 A 147.4 x 432.5 x 553.6 mm 147.4 x 432.5 x 553.6 mm 18.4 kg USB / RS232 / RS485 / WiFi / Dry-contact 5% to 95% Relative Humidity (Non-condensing) -10°C to 50°C Storage Temperature -15°C to 60°C	Minimum Required Start-up Voltage	180 VDC
Maximum Charge Current PHYSICAL Dimensions, (D x W x H) Net Weight Communication Interface USB / RS232 / RS485 / WiFi / Dry-contact OPERATING ENVIRONMENT Humidity Storage Temperature STANDARD	Maximum Solar Charge Current	120 A
PHYSICAL Dimensions, (D x W x H) Net Weight 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	Maximum AC Charge Current	120 A
Dimensions, (D x W x H) Net Weight 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 STANDARD	Maximum Charge Current	120 A
Net Weight 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 STANDARD	PHYSICAL	
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 STANDARD	Dimensions, (D x W x H)	147.4 x 432.5 x 553.6 mm
OPERATING ENVIRONMENT Humidity 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Net Weight	<u> </u>
Humidity 5% to 95% Relative Humidity (Non-condensing) Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	Communication Interface	USB / RS232 / RS485 / WiFi / Dry-contact
Operating Temperature -10°C to 50°C Storage Temperature -15°C to 60°C STANDARD	OPERATING ENVIRONMENT	
Storage Temperature -15°C to 60°C STANDARD	Humidity	* 1
STANDARD	Operating Temperature	
	Storage Temperature	-15°C to 60°C
Compliance Safety CE	STANDARD	
	Compliance Safety	CE

Product specifications are subject to change without further notice.



