

SPLIT PHASE SERIES
Off-Grid Inverter

MasterPower
Unlimited power



INVERTER WITH ENERGY STORAGE

Omega WP LV 6K



6000 W

**MASTER
BATTERY**



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Features

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in Wi-Fi for mobile monitoring (App is available).
- Built-in alternative port for generator and emergent load.
- Optional external CT sensor to guarantee 100% selfconsumption.
- Programmable supply priority for PV, Battery or Grid.
- Built-in communication port for BMS (RS485).
- User-adjustable charging current and voltage.
- Parallel operation up to 6 units.

Technical Specifications

Phase	120 V / 240 V Split phase, 120 V / 208 V Split phase
Maximum PV Input Power	7500 W
Rated Output Power	6000 VA / 6000 W
Maximum Charging Power	6000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15 A
GRID OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)
Output Voltage Range	105.5 VAC - 132 VAC (per phase)
Nominal Output Current	25 A per phase
Power Factor	0.9 lag to 0.9 lead
No Load Consumption	75 W
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID, HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15 A



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AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (per phase) / 90 VAC (per phase)
Acceptable Input Voltage Range	85 - 140 VAC (per phase)
Maximum AC Input Current	40 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
DC Voltage Range / Nominal Voltage	40 - 62 VDC / 48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
GENERAL	
PHYSICAL	
Dimension, (D x W x H)	215.5 x 515 x 700 mm
Net Weight	41 kg
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	RS232, RS485, Wi-Fi, USB
ENVIRONMENT	
Operating Temperature	-25°C to 60°C (> 45°C derating)
STANDARD	
Protection Degree	IP65
Safety	UL1741SA, UL1741SB, CSA 22.2.107.1, CEC, CRD
Grid Connection Standard	IEEE1547.1-2020
EMC	FCC CRF47 PART15 B

Product specifications are subject to change without further notice.

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