

Split Phase Series Omega WP LV 6K

INVERTER WITH ENERGY STORAGE



Features

- Multiple output of 120 V / 240 V Split phase, 120 V Single phase or 120 V / 208 V split phase.
- IP65 waterproof and dustproof for various working conditions.
- Self-consumption and Feed-in to the grid.
- Built-in alternative port for generator and emergent load.
- Optional external CT sensor to guarantee 100% self-consumption.
- Built-in communication port for BMS (RS-485) and Wi-Fi.
- Programmable multiple operation modes: Grid-tie, off-grid and gridtie with backup.
- Parallel operation up to 9 units.

Technical Specifications

Phase	120 V / 240 V Split phase, 120 V Single 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 / Max. Input Current	2 / 15 A
GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	91.5 - 132 VAC (P-N) / 183 - 264 VAC (P-P)
Nominal Output Current	27.3 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 OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	80 VAC (P-N), 160 VAC (P-P) / 85 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	85 - 140 VAC (P-N) / 170 - 280 VAC (P-P)
Frequency Range	50 Hz / 60 Hz (Auto sensing)
Maximum AC Input Current	30 A per phase
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Max. Input Current	2 / 15 A

Technical Specifications

BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
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
GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	91.5 VAC - 132 VAC (P-N) / 183 VAC - 264 VAC (P-P)
Nominal Output Current	27.3 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	80 VAC (P-N), 160 VAC (P-P) / 85 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	85 VAC - 140 VAC (P-N) / 170 VAC - 280 VAC (P-P)
Maximum AC Input Current	30 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	42 VDC - 62 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)	200 x 450 x 593 mm
Net Weight	25 kg
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	RS-232, RS-485, USB, Dry Contact and Wi-Fi
ENVIRONMENT	
Protection Degree	IP65
Operating Temperature	-25°C to 60°C (> 45°C derating)

Product specifications are subject to change without further notice.