

Split Phase Series Omega V7 LV 6K

INVERTER WITH ENERGY STORAGE



Features

- Pure sine wave output.
- Self-consumption and Feed-in to the grid.
- Programmable supply priority for PV, Battery or Grid.
- User-adjustable charging current up to 100 A.
- Detachable LCD control module with multiple communications.
- Built-in Wi-Fi for mobile monitoring (App is available).
- Reserved communication port for BMS (RS-485).

Technical Specifications

Phase	Split phase
Maximum PV Input Power	6000 W
Rated Output Power	6000 VA
Maximum Charging Power	5000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Max. DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
No. of MPP Trackers / Max. Input Current	1 / 27 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	> 0.99
No Load Consumption	75 W
EFFICIENCY	
Maximum Conversion Efficiency (DC / AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	65 - 140 VAC (P-N) / 130 - 280 VAC (P-P)
Frequency Range	50 Hz / 60 Hz (Auto sensing)
Maximum AC Input Current	40 A per phase
PV INPUT (DC)	
Maximum DC Voltage	450 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
No. of MPP Trackers / Max. Input Current	1 / 27 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)	88%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 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)
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AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	65 VAC - 140 VAC (P-N) / 130 VAC - 280 VAC (P-P)
Maximum AC Input Current	40 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	88%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	100 A
Maximum AC Charging Current	100 A
Maximum Charging Current	100 A
GENERAL	
PHYSICAL	
Dimension, (D x W x H)	138 x 417 x 550 mm
Net Weight	45 kg
INTERFACE	
Communication	USB / RS-232 / RS-485 / Wi-Fi / Dry Contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10°C to 55°C

Product specifications are subject to change without further notice.