

SPLIT PHASE SERIES  
Off-Grid Inverter

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**MasterPower**  
*Unlimited power*



INVERTER WITH ENERGY STORAGE

# Omega V7 LV 6K



**6000 W**



**MASTER  
BATTERY**

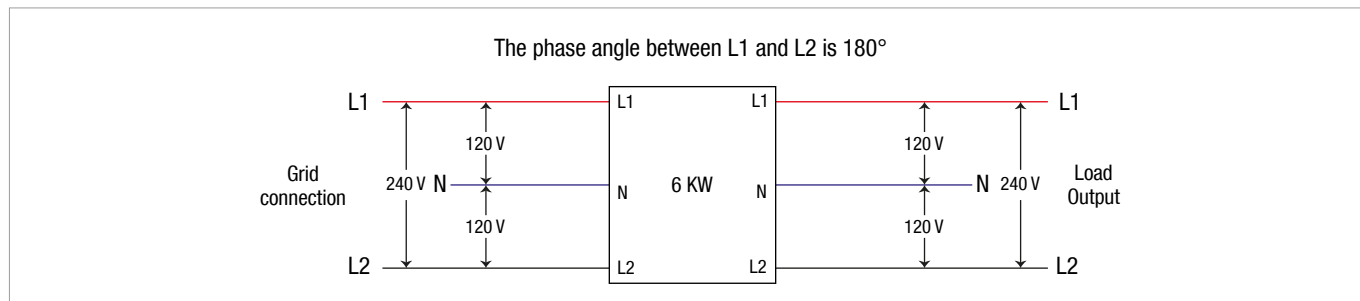


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# Omega V7 LV 6K

## ENERGY STORAGE



### Features

- Built-in transformer, supporting split phase operation.
- Self-consumption and Feed-in to the grid.
- Programmable supply priority for PV, Battery or Grid.
- User-adjustable charging current up to 120 A.
- Detachable LCD control module with multiple communications.
- Built-in Wi-Fi for mobile monitoring (App is available).
- Reserved communication port for BMS (RS485).
- Parallel operation up to 9 units.

### Technical Specifications

Phase	Split phase
Maximum PV Input Power	6000 W
Rated Output Power	6000 W
Maximum Charging Power	5000 W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	110 VDC / 120 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	110 - 120 VAC (L-N) / 220 - 240 VAC (L1-L2)
Output Voltage Range	93.5 - 126.5 VAC for 110 VAC; 102 - 138 VAC for 120 VAC
Nominal Output Current	27.3 A for 110 VAC, 25 A for 120 VAC
Power Factor	>0.99
No Load Consumption	75 W
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	95%



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OFF-GRID, HYBRID OPERATION	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	110 VDC / 120 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
<b>AC INPUT</b>	
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 (Appliances) or 95 - 140 VAC (Personal computer)
Maximum AC Input Current	40 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	110 - 120 VAC (L-N) / 220 - 240 VAC (L1-L2)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D x W x H	138.4 x 365 x 593.6 mm
Net Weight	26 kg
<b>INTERFACE</b>	
Communication Port	USB / RS-232 / RS-485 / Wi-Fi / Dry contact
<b>ENVIRONMENT</b>	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10°C to 50°C

Product specifications are subject to change without further notice.

03

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