

## Split Phase Series Omega WP LV 6K

INVERTER WITH ENERGY STORAGE



### Features

- Multiple output of 120/240V Split phase, 120V Single phase or 120V/208V 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                                       | 120/240V Split phase, 120V Single phase, 120/208V Split phase |
| Maximum PV Input Power                      | 7500W   |
| Rated Output Power                          | 6000VA / 6000W  |
| Maximum Charging Power                      | 6000W   |
| <b>GRID-TIE OPERATION</b>                   |   |
| <b>PV INPUT (DC)</b>                        |   |
| Maximum DC Voltage                          | 600VDC  |
| Start-up Voltage / Initial Feeding Voltage  | 120VDC / 160VDC   |
| MPP Voltage Range                           | 120VDC ~ 550VDC   |
| Number of MPP Trackers / Max. Input Current | 2 / 15A   |
| <b>GRID OUTPUT (AC)</b>                     |   |
| Nominal Output Voltage                      | 110VAC (P-N) / 220VAC (P-P)                                   |
| Output Voltage Range                        | 91.5 - 132VAC (P-N) / 183 - 264VAC (P-P)                      |
| Nominal Output Current                      | 27.3A per phase   |
| Power Factor                                | 0.9 lag to 0.9 lead   |
| <b>EFFICIENCY</b>                           |   |
| Maximum Conversion Efficiency (DC/AC)       | 96%   |
| <b>OFF-GRID OPERATION</b>                   |   |
| <b>AC INPUT</b>                             |   |
| AC Start-up Voltage / Auto Restart Voltage  | 80VAC (P-N), 160VAC (P-P) / 85VAC (P-N), 140VAC (P-P)         |
| Acceptable Input Voltage Range              | 85 - 140VAC (P-N) / 170 - 280VAC (P-P)                        |
| Frequency Range                             | 50 / 60Hz (Auto sensing)                                      |
| Maximum AC Input Current                    | 30A per phase   |
| <b>PV INPUT (DC)</b>                        |   |
| Maximum DC Voltage                          | 600VDC  |
| MPP Voltage Range                           | 120VDC ~ 550VDC   |
| Number of MPP Trackers / Max. Input Current | 2 / 15A   |

### Technical Specifications

|  |   |
|--|---|
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 110VAC (P-N) / 220VAC (P-P)                           |
| Output Waveform                                | Pure sine wave  |
| Efficiency (DC to AC)                          | 91%   |
| <b>HYBRID OPERATION</b>                        |   |
| <b>PV INPUT (DC)</b>                           |   |
| Maximum DC Voltage                             | 600VDC  |
| Start-up Voltage / Initial Feeding Voltage     | 120VDC / 160VDC                                       |
| MPP Voltage Range                              | 120VDC ~ 550VDC                                       |
| Number of MPP Trackers / Maximum Input Current | 2 / 15A   |
| <b>GRID OUTPUT (AC)</b>                        |   |
| Nominal Output Voltage                         | 110VAC (P-N) / 220VAC (P-P)                           |
| Output Voltage Range                           | 91.5 - 132VAC (P-N) / 183 - 264VAC (P-P)              |
| Nominal Output Current                         | 27.3A per phase                                       |
| <b>AC INPUT</b>                                |   |
| AC Start-up Voltage / Auto Restart Voltage     | 80VAC (P-N), 160VAC (P-P) / 85VAC (P-N), 140VAC (P-P) |
| Acceptable Input Voltage Range                 | 85 - 140VAC (P-N) / 170 - 280VAC (P-P)                |
| Maximum AC Input Current                       | 30A per phase   |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 110VAC (P-N) / 220VAC (P-P)                           |
| Efficiency (DC to AC)                          | 91%   |
| <b>BATTERY &amp; CHARGER</b>                   |   |
| Nominal DC Voltage                             | 42 - 62VDC  |
| Maximum Solar Charging Current                 | 120A  |
| Maximum AC Charging Current                    | 120A  |
| Maximum Charging Current                       | 120A  |
| <b>GENERAL</b>                                 |   |
| <b>PHYSICAL</b>                                |   |
| Dimension, D x W x H (mm)                      | 200 x 450 x 593                                       |
| Net Weight (kgs)                               | 25  |
| <b>INTERACE</b>                                |   |
| Parallel Function                              | Yes, 9 units  |
| Communication Port                             | RS-232, RS-485, USB, dry contact and Wi-Fi            |
| <b>ENVIRONMENT</b>                             |   |
| Protection Degree                              | IP65  |
| Operating Temperature                          | -25°C to 60°C (>45°C derating)                        |

Product specifications are subject to change without further notice.

