



# InfinitiSolar VIII Twin



- Maximum PV input current 27A
- Dual outputs for smart load management
- Built-in WiFi for mobile monitoring (APP in available)
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

## InfinitiSolar V III TWIN On-Grid Inverter with Energy Storage Specification

| MODEL                                          | InfinitiSolar V III TWIN 6kw                    |
|------------------------------------------------|-------------------------------------------------|
| Phase                                          | 1-phase in / 1-phase out                        |
| Maximum PV Input Power                         | 7000W                                           |
| Rated Output Power                             | 6000W                                           |
| Maximum Charging Power                         | 6000W                                           |
| <b>GRID-TIE OPERATION</b>                      |                                                 |
| <b>PV INPUT (DC)</b>                           |                                                 |
| Nominal DC Voltage / Maximum DC Voltage        | 360 VDC / 500 VDC                               |
| Start-up Voltage / Initial Feeding Voltage     | 120VDC / 150 VDC                                |
| MPP Voltage Range                              | 120 VDC ~ 430 VDC                               |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A                                         |
| <b>GRID OUTPUT (AC)</b>                        |                                                 |
| Nominal Output Voltage                         | 220/230/240 VAC                                 |
| Output Voltage Range                           | 184 - 264.5 VAC or 195.5 - 253 VAC (Selectable) |
| Nominal Output Current                         | 26A                                             |
| Power Factor                                   | > 0.99                                          |
| <b>EFFICIENCY</b>                              |                                                 |
| Maximum Conversion Efficiency (DC/AC)          | 95%                                             |
| <b>OFF-GRID OPERATION</b>                      |                                                 |
| <b>AC INPUT</b>                                |                                                 |
| AC Start-up Voltage / Auto Restart Voltage     | 120 - 140 VAC / 180 VAC                         |
| Acceptable Input Voltage Range                 | 90 - 280 VAC or 170 - 280 VAC                   |
| Frequency Range                                | 50 Hz/60 Hz (Auto sensing)                      |
| Maximum AC Input Current                       | 40 A                                            |
| <b>PV INPUT (DC)</b>                           |                                                 |
| Maximum DC Voltage                             | 500 VDC                                         |
| MPP Voltage Range                              | 120 VDC ~ 430 VDC                               |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A                                         |
| <b>BATTERY MODE OUTPUT (AC)</b>                |                                                 |
| Nominal Output Voltage                         | 220/230/240 VAC                                 |
| Output Waveform                                | Pure sine wave                                  |
| Efficiency (DC to AC)                          | 93%                                             |
| <b>HYBRID OPERATION</b>                        |                                                 |
| <b>PV INPUT (DC)</b>                           |                                                 |
| Nominal DC Voltage / Maximum DC Voltage        | 360 VDC / 500 VDC                               |
| Start-up Voltage / Initial Feeding Voltage     | 120VDC / 150 VDC                                |
| MPP Voltage Range                              | 120 VDC ~ 430 VDC                               |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A                                         |
| <b>GRID OUTPUT (AC)</b>                        |                                                 |
| Nominal Output Voltage                         | 220/230/240 VAC                                 |
| Output Voltage Range                           | 184 - 264.5 VAC or 195.5 - 253 VAC (Selectable) |
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| <b>AC INPUT</b>                                |                                                 |
| AC Start-up Voltage / Auto Restart Voltage     | 120 - 140 VAC / 180 VAC                         |
| Acceptable Input Voltage Range                 | 90 - 280 VAC or 170 - 280 VAC                   |
| Maximum AC Input Current                       | 40 A                                            |
| <b>BATTERY MODE OUTPUT (AC)</b>                |                                                 |
| Nominal Output Voltage                         | 220/230/240 VAC                                 |
| 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 (mm)                      | 140 x 295 x 468                                 |
| Net Weight (kgs)                               | 14                                              |
| <b>INTERACE</b>                                |                                                 |
| Parallel Function                              | Yes, 9 units                                    |
| Communication Port                             | USB, RS-232, Dry Contact and WiFi               |
| <b>ENVIRONMENT</b>                             |                                                 |
| Humidity                                       | 0 ~ 90% RH (No condensing)                      |
| Operating Temperature                          | -10°C to 50°C                                   |

Product specifications are subject to change without further notice.