

# InfiniSolar On-grid Inverter with Energy Storage



- 10KW three phase on-grid inverter with energy storage
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- User-adjustable charging current up to 200A

## Infinisolar Three Phase On-grid Inverter with Energy Storage Selection Guide

|  |   |
|--|---|
| <b>MODEL</b>                                   | <b>InfiniSolar 10KW</b>                           |
| <b>PHASE</b>                                   | 3-phase in / 3-phase out                          |
| <b>RATED OUTPUT POWER</b>                      | 10000 W   |
| <b>GRID-TIE OPERATION</b>                      |   |
| <b>PV INPUT (DC)</b>                           |   |
| Maximum PV Input Power                         | 14850W  |
| Nominal DC Voltage / Maximum DC Voltage        | 720 VDC / 900 VDC                                 |
| Start-up Voltage / Initial Feeding Voltage     | 320 VDC / 350 VDC                                 |
| MPP Voltage Range                              | 400 VDC ~ 800 VDC                                 |
| Number of MPP Trackers / Maximum Input Current | 2 / 2 x 18.6A                                     |
| <b>GRID OUTPUT (AC)</b>                        |   |
| Nominal Output Voltage                         | 3/N/PE, 230VAC*                                   |
| Output Voltage Range                           | 184 - 264.5 VAC*                                  |
| Nominal Output Current                         | 14.5 A*   |
| Power Factor                                   | > 0.99  |
| <b>EFFICIENCY</b>                              |   |
| Maximum Conversion Efficiency (DC/AC)          | 96%   |
| European Efficiency@ Vnominal                  | 95%   |
| <b>OFF-GRID OPERATION</b>                      |   |
| <b>AC INPUT</b>                                |   |
| AC Start-up Voltage/Auto Restart Voltage       | 120 - 140 VAC / 180 VAC ± 3%                      |
| Acceptable Input Voltage Range                 | 170 - 280 VAC                                     |
| Maximum AC Input Current                       | 25A   |
| <b>PV INPUT (DC)</b>                           |   |
| Maximum DC Voltage                             | 900 VDC   |
| MPP Voltage Range                              | 400 VDC ~ 800 VDC                                 |
| Number of MPP Trackers / Maximum Input Current | 2 / 2 x 18.6A                                     |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 230 VAC*  |
| Output Waveform                                | Pure Sinewave                                     |
| Efficiency (DC to AC)                          | 91%   |
| <b>HYBRID OPERATION</b>                        |   |
| <b>PV INPUT (DC)</b>                           |   |
| Nominal DC Voltage / Maximum DC Voltage        | 720 VDC / 900 VDC                                 |
| Start-up Voltage / Initial Feeding Voltage     | 320 VDC / 350 VDC                                 |
| MPP Voltage Range                              | 400 VDC ~ 800 VDC                                 |
| Number of MPP Trackers / Maximum Input Current | 2 / 2 x 18.6A                                     |
| <b>GRID OUTPUT (AC)</b>                        |   |
| Nominal Output Voltage                         | 230 VAC*  |
| Output Voltage Range                           | 184 - 264.5 VAC*                                  |
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| Maximum AC Input Current                       | 25A   |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 3/N/PE, 230VAC*                                   |
| Efficiency (DC to AC)                          | 91%   |
| <b>BATTERY &amp; CHARGER</b>                   |   |
| Nominal DC Voltage                             | 48 VDC  |
| Maximum Charging Current                       | 100 A - 200 A (Adjustable)                        |
| <b>GENERAL</b>                                 |   |
| <b>PHYSICAL</b>                                |   |
| Dimension, D X W X H (mm)                      | 622 x 500 x 167.5                                 |
| Net Weight (kgs)                               | 45  |
| <b>INTERFACE</b>                               |   |
| Communication Port                             | RS-232/USB  |
| Intelligent Slot                               | Optional SNMP, Modbus, and AS-400 cards available |
| <b>ENVIRONMENT</b>                             |   |
| Humidity                                       | 0 ~ 90% RH (No condensing)                        |
| Operating Temperature                          | -10 to 55°C                                       |
| Altitude                                       | 0 ~ 1000 m**                                      |

\*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

\*\* Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.