

## INFINISOLAR WP 30K

- IP65 waterproof and dustproof
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Parallel operation up to 4 units



## TECHNICAL DATA SHEET

|  |   |
|--|---|
| <b>MODEL</b>                                   | InfiniSolar WP 30kw   |
| <b>MAXIMUM PV INPUT POWER</b>                  | 40000 W   |
| <b>RATED OUTPUT POWER</b>                      | 30000 W   |
| <b>MAXIMUM CHARGING POWER</b>                  | 30000 W   |
| <b>GRID-TIE OPERATION</b>                      |   |
| <b>PV INPUT (DC)</b>                           |   |
| Nominal DC Voltage / Maximum DC Voltage        | 720 VDC / 1000 VDC  |
| Start-up Voltage / Initial Feeding Voltage     | 320 VDC / 350 VDC   |
| MPP Voltage Range                              | 350 VDC ~ 900 VDC   |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A  |
| Number of Strings Per MPP Tracker              | A: 2, B: 2, C: 2  |
| <b>GRID/UTILITY OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 230 VAC (P-N) / 400 VAC (P-P)                                       |
| Output Voltage Range                           | 184 - 265 VAC per phase   |
| Nominal Output Current                         | 43.5 A per phase  |
| Power Factor                                   | 0.9 lag to 0.9 lead   |
| <b>EFFICIENCY</b>                              |   |
| Maximum Conversion Efficiency (DC/AC)          | 96.5%   |
| European Efficiency@ Vnominal                  | 96%   |
| <b>OFF-GRID OPERATION</b>                      |   |
| <b>AC INPUT</b>                                |   |
| AC Start-up Voltage / Auto Restart Voltage     | 120 - 140 VAC / 180 VAC per phase                                   |
| Acceptable Input Voltage Range                 | 170 - 280 VAC per phase   |
| Maximum AC Input Current                       | 50 A  |
| <b>PV INPUT (DC)</b>                           |   |
| Maximum DC Voltage                             | 1000 VDC  |
| MPP Voltage Range                              | 350 VDC ~ 900 VDC   |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A  |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 230 VAC (P-N) / 400 VAC (P-P)                                       |
| Output Waveform                                | Pure sine wave  |
| Efficiency (DC to AC)                          | 97%   |
| <b>HYBRID OPERATION</b>                        |   |
| <b>PV INPUT (DC)</b>                           |   |
| Maximum DC Voltage                             | 1000 VDC  |
| Start-up Voltage / Initial Feeding Voltage     | 320 VDC / 350 VDC   |
| MPP Voltage Range                              | 350 VDC ~ 900 VDC   |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A  |
| <b>GRID OUTPUT (AC)</b>                        |   |
| Nominal Output Voltage                         | 230 VAC (P-N) / 400 VAC (P-P)                                       |
| Output Voltage Range                           | 184 - 265 VAC per phase   |
| Nominal Output Current                         | 43.5 A per phase  |
| <b>AC INPUT</b>                                |   |
| AC Start-up Voltage / Auto Restart Voltage     | 120 - 140 VAC / 180 VAC per phase                                   |
| Acceptable Input Voltage Range                 | 170 - 280 VAC per phase   |
| Maximum AC Input Current                       | 50 A  |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |
| Nominal Output Voltage                         | 230 VAC (P-N) / 400 VAC (P-P)                                       |
| Efficiency (DC to AC)                          | 97%   |
| <b>BATTERY &amp; CHARGER</b>                   |   |
| Battery Voltage Range                          | 500 ~ 900 VDC   |
| Maximum Charging Current                       | 50 A  |
| <b>GENERAL</b>                                 |   |
| <b>PHYSICAL</b>                                |   |
| Dimension, D x W x H (mm)                      | 255 x 660 x 750   |
| Net Weight (kgs)                               | 73  |
| <b>INTERFACE</b>                               |   |
| Communication Port                             | RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi                          |
| Intelligent Slot                               | Optional SNMP and MODBUS  |
| <b>ENVIRONMENT</b>                             |   |
| Humidity                                       | 0 ~ 100% RH   |
| Operating Temperature                          | -25°C to 60°C (>45°C De-rating)                                     |
| Altitude                                       | 0 ~ 1000 m**  |
| <b>PROTECTION &amp; CERTIFICATE</b>            |   |
| Safety   | IEC 61000, EN 62960, IEC 62109, IEC 62477                           |
| Grid Connection Standard                       | NRS097-2-1:2017, VDE-AR-N4105, IEC 61683, IEC 61727, IEC 62116, G99 |

\*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.