

InfiniSolar On-grid Inverter with Energy Storage



- 2KW/3KW/5KW 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

InfiniSolar On-grid Inverter with Energy Storage Selection Guide

| MODEL | InfiniSolar 2KW | InfiniSolar 3KW | InfiniSolar Plus 3KW | InfiniSolar 5KW |
|--|---|-------------------------|-------------------------|-------------------------|
| PHASE | 1-phase in / 1-phase out | | | |
| RATED OUTPUT POWER | 2000 W | 3000 W | 3000 W | 5000 W |
| GRID-TIE OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Maximum PV Input Power | 2250W | 3200W | 4500W | 7500W |
| Nominal DC Voltage / Maximum DC Voltage | 300 VDC / 350 VDC | | 360 VDC / 500 VDC | |
| Start-up Voltage / Initial Feeding Voltage | 80 VDC / 120 VDC | | 116 VDC / 150 VDC | |
| MPP Voltage Range | 150 VDC ~ 320 VDC | | 250 VDC ~ 450 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 13 A | 1 / 1 x 18 A | 2 / 2 x 15 A |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | | 208/220/230/240 VAC | |
| Output Voltage Range | 88 - 127 VAC* | | 184 - 264.5 VAC* | |
| Nominal Output Current | 18 A | 13 A | 13 A | 21 A |
| Power Factor | > 0.99 | | | |
| EFFICIENCY | | | | |
| Maximum Conversion Efficiency (DC/AC) | 95% | 96% | 96% | 96% |
| European Efficiency@ Vnominal | 94% | 95% | 95% | 95% |
| OFF-GRID OPERATION | | | | |
| AC INPUT | | | | |
| AC Start-up Voltage/Auto Restart Voltage | 60 - 70 VAC / 85 VAC | 120 - 140 VAC / 180 VAC | 120 - 140 VAC / 180 VAC | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 80 - 130 VAC | 170 - 280 VAC | 170 - 280 VAC | 170 - 280 VAC |
| Maximum AC Input Current | | 30 A | | 40 A |
| PV INPUT (DC) | | | | |
| Maximum DC Voltage | 350 VDC | | 500 VDC | |
| MPP Voltage Range | 150 VDC ~ 320 VDC | | 250 VDC ~ 450 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 13 A | 1 / 1 x 18 A | 2 / 2 x 15 A |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | | 202/208/220/230/240 VAC | |
| Output Waveform | Pure Sinewave | | | |
| Efficiency (DC to AC) | 90% | 93% | 93% | 91% |
| HYBRID OPERATION | | | | |
| PV INPUT (DC) | | | | |
| Nominal DC Voltage / Maximum DC Voltage | 300 VDC / 350 VDC | | 360 VDC / 500 VDC | |
| Start-up Voltage / Initial Feeding Voltage | 80 VDC / 120 VDC | | 116 VDC / 150 VDC | |
| MPP Voltage Range | 150 VDC ~ 320 VDC | | 250 VDC ~ 450 VDC | |
| Number of MPP Trackers / Maximum Input Current | 1 / 1 x 15 A | 1 / 1 x 13 A | 1 / 1 x 18 A | 2 / 2 x 15 A |
| GRID OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | | 202/208/220/230/240 VAC | |
| Output Voltage Range | 88-127 VAC* | | 184 - 264.5 VAC* | |
| Nominal Output Current | 18 A | 13 A | 13 A | 21 A |
| AC INPUT | | | | |
| AC Start-up Voltage / Auto Restart Voltage | 60 - 70 VAC / 85 VAC | 120 - 140 VAC / 180 VAC | 120 - 140 VAC / 180 VAC | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 80 - 130 VAC | 170 - 280 VAC | 170 - 280 VAC | 170 - 280 VAC |
| Maximum AC Input Current | | 30 A | | 40 A |
| BATTERY MODE OUTPUT (AC) | | | | |
| Nominal Output Voltage | 101/110/120/127 VAC | | 202/208/220/230/240 VAC | |
| Efficiency (DC to AC) | 90% | 93% | 93% | 91% |
| BATTERY & CHARGER | | | | |
| Nominal DC Voltage | 48 VDC | | | |
| Maximum Charging Current | | 25A | | 60A |
| GENERAL | | | | |
| PHYSICAL | | | | |
| Dimension, D X W X H (mm) | | 420 x 415 x 170 | | 505 x 440 x 135 |
| Net Weight (kgs) | | 15.5 | | 18.5 |
| INTERFACE | | | | |
| Communication Port | RS-232/USB | | | |
| Intelligent Slot | Optional SNMP, Modbus, and AS-400 cards available | | | |
| ENVIRONMENT | | | | |
| Humidity | 0 ~ 90% RH (No condensing) | | | |
| Operating Temperature | 0 to 40°C | | 0 to 40°C | -10 to 55°C |
| Altitude | 0 ~ 1000 m** | | | |

*These 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.

InfiniSolar On-grid Inverter with Energy Storage



- 10KW three phase on-grid inverter with energy storage
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- 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
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- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control

InfiniSolar Three Phase On-grid Inverter with Energy Storage Selection Guide

| MODEL | InfiniSolar 10KW |
|--|---|
| PHASE | 3-phase in / 3-phase out |
| RATED OUTPUT POWER | 10000 W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| 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 |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 3/N/PE, 230VAC/400VAC* |
| Output Voltage Range | 184 - 264.5 VAC* |
| Nominal Output Current | 14.5 A* |
| Power Factor | > 0.99 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 96% |
| European Efficiency@ Vnominal | 95% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC Start-up Voltage/Auto Restart Voltage | 120 - 140 VAC / 185 VAC* |
| Acceptable Input Voltage Range | 175 - 280 VAC* |
| Maximum AC Input Current | 28 A |
| PV INPUT (DC) | |
| Maximum DC Voltage | 900 VDC |
| MPP Voltage Range | 400 VDC ~ 800 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / 2 x 18.6A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC* |
| Output Waveform | Pure Sinewave |
| Efficiency (DC to AC) | 92% |
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| 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 |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC* |
| Output Voltage Range | 184 - 264.5 VAC* |
| Nominal Output Current | 14.5 A* |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 198 VAC |
| Acceptable Input Voltage Range | 184 - 264.5 VAC* |
| Maximum AC Input Current | 28A* |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 3/N/PE, 230VAC/400VAC* |
| Efficiency (DC to AC) | 91% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 48 VDC |
| Maximum Charging Current | 80A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D X W X H (mm) | 155 x 438 x 600 |
| Net Weight (kgs) | 45.5 |
| INTERFACE | |
| Communication Port | RS-232/USB |
| Intelligent Slot | Optional SNMP, Modbus, and AS-400 cards available |
| ENVIRONMENT | |
| 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.