

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)	480 x 438 x 107		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.

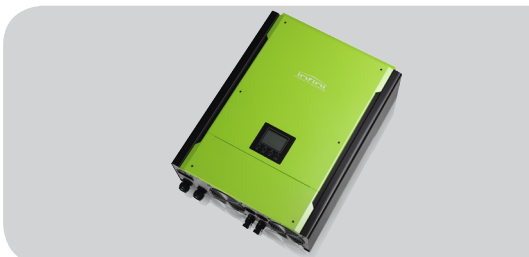
**Power derating 1% every 100 m when altitude is over 1000m.
Product specifications are subject to change without further notice.



VDE-AR-N 4105
VDE 0126-1-1

AS4777, AS/NZS3100 (Only for InfiniSolar Plus 3KW)

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
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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.