

# InfiniSolar On-grid Inverter with Energy Storage



- 2KW/3KW 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
<b>PHASE</b>		1-phase in / 1-phase out	
<b>RATED OUTPUT POWER</b>	2000 W	3000 W	3000 W
<b>MAXIMUM CHARGING POWER</b>	1200 W	1200 W	1200 W
<b>GRID-TIE OPERATION</b>			
<b>PV INPUT (DC)</b>			
Maximum PV Input Power	2250W	3200W	4500W
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
<b>GRID OUTPUT (AC)</b>			
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
Power Factor		> 0.99	
<b>EFFICIENCY</b>			
Maximum Conversion Efficiency (DC/AC)	95%	96%	96%
European Efficiency@ Vnominal	94%	95%	95%
<b>OFF-GRID OPERATION</b>			
<b>AC INPUT</b>			
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC	170 - 280 VAC
Maximum AC Input Current		30 A	
<b>PV INPUT (DC)</b>			
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
<b>BATTERY MODE OUTPUT (AC)</b>			
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%
<b>HYBRID OPERATION</b>			
<b>PV INPUT (DC)</b>			
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
<b>GRID OUTPUT (AC)</b>			
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
<b>AC INPUT</b>			
AC Start-up Voltage / Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC	170 - 280 VAC
Maximum AC Input Current		30 A	
<b>BATTERY MODE OUTPUT (AC)</b>			
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	
Efficiency (DC to AC)	90%	93%	93%
<b>BATTERY &amp; CHARGER</b>			
Nominal DC Voltage		48 VDC	
Maximum Charging Current		25A	
<b>GENERAL</b>			
<b>PHYSICAL</b>			
Dimension, D X W X H (mm)		107 x 438 x 480	
Net Weight (kgs)		15.5	
<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		0 to 40°C	0 to 40°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.

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

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

# InfiniSolar On-grid Inverter with Energy Storage



- 5KW/6KW 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 Plus 5KW	InfiniSolar 6KW
<b>PHASE</b>	1-phase in / 1-phase out	
<b>RATED OUTPUT POWER</b>	7500 W	
<b>MAXIMUM CHARGING POWER</b>	4800 W	4800 W
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Maximum PV Input Power	5000W	6000W
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 680 VDC	
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	
MPP Voltage Range	100 VDC ~ 680 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 2 x 15 A	
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	208/220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC*	
Nominal Output Current	21 A	26 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	
Acceptable Input Voltage Range	170 - 280 VAC	
Maximum AC Input Current	60 A	
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	680 VDC	
MPP Voltage Range	100 VDC ~ 680 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 2 x 15 A	
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	202/208/220/230/240 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	360 VDC / 680 VDC	
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	
MPP Voltage Range	100 VDC ~ 680 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 2 x 15 A	
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	202/208/220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC*	
Nominal Output Current	21 A	26 A
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	170 - 280 VAC	
Maximum AC Input Current	60 A	
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	202/208/220/230/240 VAC	
Efficiency (DC to AC)	91%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	48 VDC	
Maximum Charging Current	100 A (Adjustable)	
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	135 x 440 x 505	
Net Weight (kgs)	18.5	
<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 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 charging current up to 200A
- 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 Three Phase On-grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar Three Phase 10KW
<b>PHASE</b>	3-phase in / 3-phase out
<b>RATED OUTPUT POWER</b>	10000 W
<b>MAXIMUM CHARGING POWER</b>	9600 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	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
<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	14.5 A per phase
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 per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	25A
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	900 VDC
MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
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	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
<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	14.5 A per phase
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	25A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 5A - 200A (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 and CAN Interface
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*

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