

# INIFINISOLAR

## HYBRID SOLAR INVERTER

### Features

- Pure sine wave output
- 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 operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS232-, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units for 5KW, 10KW and 15KW



MODEL	InfiSolar 2KW	InfiSolar Plus 3KW	InfiSolar Plus II 3KW	InfiSolar Plus 5KW	InfiSolar 3P 10KW	InfiSolar 3P 15KW
<b>PHASE</b>	-1phase in / -1phase out				-3phase in/-3phase out	-3phase in/-3phase out
<b>Maximum PV Input Power</b>	2250 W	4500 W	4500 W	10000 W	14850 W	22500 W
<b>Rated Output Power</b>	2000 W	3000 W	3000 W	5000 W	10000 W	15000 W
<b>Maximum Charging Power</b>	1200 W		2880 W	4800 W	9600 W	15000 W
<b>GRID-TIE OPERATION</b>						
<b>PV INPUT (DC)</b>						
<b>Nominal DC Voltage / Maximum DC Voltage</b>	300 VDC / 350 VDC	360 VDC / 500 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
<b>Start-up Voltage / Initial Feeding Voltage</b>	80 VDC / 120 VDC	116 VDC / 150 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
<b>MPP Voltage Range</b>	120 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	400 VDC ~ 800 VDC
<b>Number of MPP Trackers / Maximum Input Current</b>	1 / 1 x 15 A	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
<b>GRID OUTPUT (AC)</b>						
<b>Nominal Output Voltage</b>	127/120/110/101 VAC	240/230/220/208 VAC			230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
<b>Output Voltage Range</b>	127 - 88 VAC*	265 - 184 VAC*			265 - 184 VAC* per phase	264.5 - 184 VAC* per phase
<b>Nominal Output Current</b>	18A	13A		21A	14.5A per phase	21.7A per phase
<b>Power Factor</b>	> 0.99					
<b>EFFICIENCY</b>						
<b>Maximum Conversion Efficiency (DC/AC)</b>	%95		%96			
<b>European Efficiency @ Vnominal</b>	%94		%95			
<b>OFF-GRID OPERATION</b>						
<b>AC INPUT</b>						
<b>AC Start-up Voltage / Auto Restart Voltage</b>	70 - 60 VAC / 85 VAC	140 - 120 VAC / 180 VAC			140 - 120 VAC per phase / 180 VAC per phase	
<b>Acceptable Input Voltage Range</b>	130- 80 VAC	280- 170 VAC			280 - 170 VAC per phase	
<b>Maximum AC Input Current</b>	30A			40A		
<b>PV INPUT (DC)</b>						
<b>Maximum DC Voltage</b>	350 VDC	500 VDC	500 VDC	900 VDC	900 VDC	900 VDC
<b>MPP Voltage Range</b>	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
<b>Number of MPP Trackers / Maximum Input Current</b>	1 / 1 x 15 A	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10 A	2 / 2 x 18.6 A	2 / A: 37.65A; B: 18.6A
<b>BATTERY MODE OUTPUT (AC)</b>						
<b>Nominal Output Voltage</b>	127/120/110/101 VAC	240/230/220/208/202 VAC	240/230/220/208/202 VAC	240/230/220/208/202 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
<b>Output Waveform</b>	Pure sine wave					
<b>Efficiency (DC to AC)</b>	%90		%93		%91	

# INIFINISOLAR

## HYBRID SOLAR INVERTER

HYBRID OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / DC Feeding Voltage	80 VDC / 120 VDC		116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)						
Nominal Output Voltage	127/120/110/101 VAC	240/230/220/208 VAC			230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	127 - 88 VAC*	265 - 184 VAC*			265 - 184 VAC* per phase	264.5 - 184 VAC* per phase
Nominal Output Current	18A	13A		21A	14.5A per phase	21.7A per phase
AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	70 - 60 VAC / 85 VAC	140 - 120 VAC / 180 VAC			140 - 120 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	130- 80 VAC	280- 170 VAC			280 - 170 VAC per phase	
Maximum AC Input Current	30 A			40 A		
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	127/120/110/101 VAC	240/230/220/208 VAC	240/230/220/208 VAC	240/230/220/208 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	%90	%93			%91	%91
BATTERY & CHARGER						
Nominal DC Voltage	48 VDC					
Maximum Charging Current	Default 25 A, 5A - 25A (Adjustable)	Default 25 A, 5A - 60A (Adjustable)	Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)	Default 60A, 5A - 300A (Adjustable)	
GENERAL						
PHYSICAL						
Dimension, D X W X H (mm)	107x 438 x 480			204.2 x 460 x 600	167.2 x 500 x 622	219 x 650 x 820
Net Weight (kgs)	15.5			29	40	62
INTERACE						
Communication Port	RS232-/USB					
Intelligent Slot	Optional SNMP, Modbus and AS400- cards available					
ENVIRONMENT						
Humidity	%90 ~ 0 RH (No condensing)					
Operating Temperature	0 to 40°C			10- to 55°C		
Altitude	1000 ~ 0 m**					