



2022

INFINITY
INVERTER

6 kW

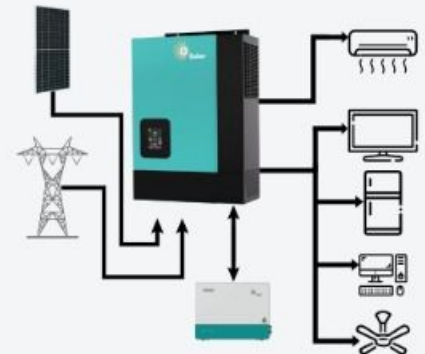
ON-GRID INVERTER WITH ENERGY STORAGE

WORLD'S 1ST GRID TIE & HYBRID INVERTER WORKS BATTERY LESS & LOAD MANAGEMENT

- Data Logging & Storage Web Portal
- Inbuilt WiFi 4G With Mobile App
- Compatible With Lithium Batteries
- Netmetering Standards Compliance



- Pure sine wave output
- Self-Consumption & Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current & Voltage
- Programmable Multiple operation modes: Grid-Tie, Off Grid & Grid-Tie with backup
- Monitoring software for real-time status display & control
- Parallel operation up to **9** units
- Battery Less Operation



INFINITY INVERTERS

INFINITY 3kW & 6kW

ON-GRID INVERTER WITH ENERGY STORAGE SPECIFICATION



INFINITY 3kW & 6kW HYBRID ON & OFF-GRID INVERTER WITH ENERGY STORAGE OPTION & INTELLIGENT MANAGEMENT

MODEL	Infinity 6kW 1 ph HLE	Infinity 3kW 1 ph HLE
PHASE	1-Phase in / 1-Phase out	1-Phase in / 1-Phase out
Maximum PV Input Power	6,500 W	4,500 W
Rated Output Power	6,000 W	3,000 W
Maximum Charging Power	6,000 W	2,880 W
Mode	On-Grid / Off- Grid	
Battery Less Operation	Yes	
Touch Screen LCD HMI	2.5"	
Load Priority AC Output Ports	1 Hi + 1 Lo	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	130 VDC / 150 VDC	80 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	80 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 x 27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184-264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	26 A	13 A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC / 180 VAC	
Acceptable Input Voltage Range	90-280 VAC or 170-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto Sensing)	
Maximum AC Input Current	45 A	
PV INPUT (DC)		
Maximum DC Voltage	500 VDC	
MPP Voltage Range	120 VDC ~ 430 VDC	
Number of MPP Trackers / Maximum Input Current	1 x 27 A	1 x 18 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220-230-240 VAC	
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	93%	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	130 VDC / 150 VDC	80 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	80 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 x 27 A	1 x 18 A
GRID OUTPUT (AC)		
High & Low Priority Output Ports	Yes	
Low Port Derated Output (Batteryless Mode)	Yes	
Nominal Output Voltage	220-230-240 VAC	
Output Voltage Range	184-264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	26 A	13 A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC ~ 180 VAC	
Acceptable Input Voltage Range	90-280 VAC or 170-280 VAC	
Maximum AC Input Current	45 A	
BATTERY MODE OUTPUT (AC)		
ESS		
Nominal Output Voltage	220-230-240 VAC	
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	95%	
BATTERY & CHARGER		
Nominal DC Voltage	48 V	24V / 48 V
Maximum Solar Charging Current	120 A	60 A
Maximum AC Charging Current	120 A	60 A
Maximum Charging Current	120 A	60 A
GENERAL		
PHYSICAL		
Dimension D x W x H (mm)	120 x 295 x 468	
Net Weight (kgs)	12	11
INTERFACE		
Parallel Function	Yes, 9 Units	
Communication Port	USB or RS-422/Dry Contact, WiFi	
ENVIRONMENT		
Humidity	0~90% RH (No Condensing)	
Operating Temperature	-10°C to 50°C	