



INFINI SOLAR
HLE 3KW
Hybrid Inverter

120VDC ~ 430VDC
MPP Voltage Range

13A
Nominal Output
Current

3000W
Maximum power

Intelligent
Load Management



Wifi built in

Communication
Interface
USB / RS-422

-10°C to 50°C
Operating Temperature

LCD Display

- Pure sine wave output
- Built-in MPPT solar charger
- Self-consumption & Feed-in to the grid
- Programmable supply priority for PV, Battery on grid
- Programmable multiple operation modes: Grid-tie, off-grid & grid-tie with backup
- Detachable LCD panel
- Support USB On-the-Go function
- Reserve BMS communication
- Parallel operation up to 9 units.
- Built-in Wifi for mobile monitoring (APP is available)

PV CAPACITY
4500W



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

MODEL	Infinity 3kW 1 ph HLE
PHASE	1-Phase in / 1-Phase out
Maximum PV Input Power	4,500 W
Rated Output Power	3,000 W
Maximum Charging Power	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 / 450 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC
MPP Voltage Range	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	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 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 / 450 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC
MPP Voltage Range	80 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	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	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	24V / 48 V
Maximum Solar Charging Current	60 A
Maximum AC Charging Current	60 A
Maximum Charging Current	60 A
GENERAL	
PHYSICAL	
Dimension D x W x H (mm)	120 x 295 x 468
Net Weight (kgs)	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

Product specifications are subject to change without further notice.