

Infini 3KW Hybrid Inverter
Infini V 5KW Hybrid Inverter
Infini 10KW Hybrid Inverter

infini **HYBRID INVERTER**

- ❖ 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
- ❖ Parallel operation up to 6 units for 10KW



SPECIFICATIONS

MODEL	INFINI 3KW	INFINI 5KW	INFINI 10KW
PHASE	Single phase in / Single phase out	Single phase in / Single phase out	3-phase in / 3-phase out
RATED OUTPUT POWER	3000 W	5000 W	10000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum PV Input Power	4500W	6000W	14850W
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	115VDC / 145 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	50 VDC / 60 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	60 VDC ~ 115 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	2 / 2 x 60 A	2 / 2 x 18.6 A
GRID OUTPUT (AC)			
Nominal Output Voltage	208/220/230/240 VAC	220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 VAC*	184 - 264.5 VAC	184 - 264.5 VAC* per phase
Nominal Output Current	13 A	21.7 A	14.5 A per phase
Power Factor	> 0.99	> 0.99	> 0.99
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	96%	91%	96%
European Efficiency@ Vnominal	95%	88%	95%
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC	90 - 280 VAC or 170 - 280 VAC	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC	50 Hz/60 Hz (Auto sensing)	170 - 280 VAC per phase
Maximum AC Input Current	30 A	40 A	40 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	145 VDC	900 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	60 VDC ~ 115 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	2 / 2 x 60 A	2 / 2 x 18.6 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC	220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave	Pure Sinewave	Pure Sinewave
Efficiency (DC to AC)	93%	93%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	115 VDC / 145 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	50 VDC / 60 VDC	320 VDC / 350 VDC
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AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC	90 - 280 VAC or 170 - 280 VAC	170 - 280 VAC per phase
Maximum AC Input Current	30 A	40 A	40 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC	220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	93%	93%	91%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC	48 VDC	48 VDC
Maximum Charging Current	25A	180 A	Default 60A, 10A - 200A (Adjustable)
GENERAL			
PHYSICAL			
Dimension, D X W X H (mm)	107 x 438 x 480	190 x 295 x 483	167.5 x 500 x 622
Net Weight (kgs)	15.5	16	45
INTERFACE			
Communication Port	RS-232/USB	USB or RS232/Dry-Contact	RS-232/USB and CAN Interface
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available	N/A	Optional SNMP, Modbus, and AS-400 cards available
ENVIRONMENT			
Humidity	0 ~ 90% RH (No condensing)	0 ~ 90% RH (Non-condensing)	0 ~ 90% RH (No condensing)
Operating Temperature	0 to 40°C	0 to 50°C	-10 to 55°C
Altitude	0 ~ 1000 m**	0 ~ 1000 m**	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.