

Infinity IP 30kw



- IP65 waterproof and dustproof
- Built-in third generation SIC MOSEFET improves efficiency
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Parallel operation up to 4 units

Infinity IP Three Phase Hybrid Inverter Specification

MODEL	Infinity IP 30kw
MAXIMUM PV INPUT POWER	40000 W
RATED OUTPUT POWER	30000 W
MAXIMUM CHARGING POWER	30000 W
GRID-TIE OPERATIONS	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 950 VDC
Number of MPP Trackers/ maximum Input Current	2/A: 26A, B:26A, C:26A
Number of Strings Per MPP Tracker	A: 2, B: 2, C:2
GRID OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 – 264 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency @ Vnominal	96%
OFF-GRID OPERATION	
AC INPUT	
AC start-up voltage / Auto Restart Voltage	120– 140 VAC / 180 VAC per phase
Acceptable input Voltage Range	170 – 280 VAC per phase
Maximum AC Input Current	50A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP trackers/ Maximum Input Current	3/ A:24A, B:26A, C: 26A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	97%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers/ Maximum Input Current	3/A :26A, B:26A, C:26A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 – 265 VAC per phase
Nominal Output Current	43.5 A per phase
AC INPUT	
AC Start-up Voltage/ Auto Restart Voltage	120– 140 VAC / 180 VAC per phase
Acceptable input Voltage Range	170 – 280 VAC per phase
Maximum AC Input Current	50A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	97%
BATTERY & CHARGER	
Battery Voltage Range	500 ~ 900 VDC
Maximum Charging Current	50A
GENERAL	
PHYSICAL	
Dimension D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi
Intelligent Slot	Optional SNMP and MODBUS
ENVIRONMENT	
Humidity	0 ~ 100%RH
Operating Temperature	-25 C to 60 C (>45 C De-rating)
Altitude	0~ 1000m**
PROTECTION & CERTIFICATE	
Safety	IEC 61000, EN 62960, IEC 62109, IEC 62477
Grid Connection Standard	NRS097-2-1:2017, VDE-AR-N4105, IEC 61683, IEC 61727, IEC 62166, G99

*These figure are base on VDE-4105 standards. All figures may vary depending on different AC voltage and country requirements.

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



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