

Alpha Series WP - 30K HYBRID INVERTER



Main Features

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

Technical Specifications

Maximum PV Input Power	40000 W
Rated Output Power	30000 W
Maximum Charging Power	30000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Max. DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
No. of MPP Trackers / Max. Input Current	3 / A: 26 A, B: 26 A, C: 26 A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID / UTILITY 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
Power Factor	0.9 lag to 0.9 lead
No Load Consumption	150 W
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	50 A

PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26 A, B: 26 A, C: 26 A
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: 26 A, B: 26 A, C: 26 A
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	50 A
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	50 A
GENERAL	
PHYSICAL	
Dimension, D x W x H	255 x 660 x 750 mm
Net Weight	73 kg
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 ~ 1000 m**
PROTECTION & CERTIFICATE	
EMI / Safety	IEC/EN 61000, IEC/EN 62920, EN 62477
Grid Connection Standard	NRS097-2-1:2017, VDE-AR-N4105, G99, IEC 61683, IEC 61727, IEC 62116

* These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000 m.

Product specifications are subject to change without further notice.