

Alpha Series WP 30kW

THREE PHASE ON-GRID INVERTER
WITH ENERGY STORAGE



Main Features

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- 150% unbalanced load support.
- Dual outputs selected as either programmable output or generator input.
- Built-in AC coupled function.
- Built-in WiFi for mobile monitoring (App is available).
- User-adjustable charging current up to 80A.
- Wide battery input range.
- Built-in communication port for BMS (RS-485).
- 5 years warranty.
- Parallel operation up to 4 units.

Technical Specifications

Maximum PV Input Power	40000W
Rated Output Power	30000W
Maximum Charging Power	30000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage/Max. DC Voltage	720VDC/1000VDC
Start-up Voltage/Initial Feeding Voltage	320VDC/350VDC
MPP Voltage Range	350VDC ~ 900VDC
No. of MPP Trackers/Max. Input Current	A: 26A, B: 26A, C: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N)/400VAC (P-P)
Output Voltage Range	184 - 265VAC per phase
Nominal Output Current	43.5A 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 - 140VAC/180VAC per phase
Acceptable Input Voltage Range	170 - 280VAC per phase
Maximum AC Input Current	50A



Technical Specifications

PV INPUT (DC)	
Maximum DC Voltage	1000VDC
MPP Voltage Range	350VDC ~ 900VDC
Number of MPP Trackers/Maximum Input Current	3/26A per MPPT
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N)/400VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	96%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000VDC
Start-up Voltage/Initial Feeding Voltage	320VDC/350VDC
MPP Voltage Range	350VDC ~ 900VDC
Number of MPP Trackers/Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N)/400VAC (P-P)
Output Voltage Range	184 - 265VAC per phase
Nominal Output Current	43.5A per phase
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140VAC/180VAC per phase
Acceptable Input Voltage Range	170 - 280VAC per phase
Maximum AC Input Current	50A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N)/400VAC (P-P)
Efficiency (DC to AC)	96%
BATTERY & CHARGER	
Battery Voltage Range	300 ~ 950VDC
Maximum Charging Current	80A
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, Modbus and GPRS cards
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (> 45°C De-rating)
Altitude	0 ~ 1000 m**

Product specifications are subject to change without further notice.

