

Alpha Series v4 - 3K HYBRID INVERTER



Features

- Customizable status LED ring with RGB lights.
- Touchable button with 4.3" colored LCD.
- Supports USB On-the-Go function.
- Data log events stored in the inverter.
- Self-consumption and Feed-in to the grid.
- Programmable supply priority for PV, Battery or Grid.
- User-adjustable charging current and voltage.
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup.
- Built-in Wi-Fi for mobile monitoring (App is available).
- Reserved communication port for BMS.
- Parallel operation up to 9 units.

Technical Specifications

Phase	1-phase in / 1-phase out
Maximum PV Input Power	5000W
Rated Output Power	3600W
Maximum Charging Power	5000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Max. DC Voltage	360VDC / 450VDC
Start-Up Voltage / Initial Feeding Voltage	110VDC / 120VDC
MPP Voltage Range	120VDC ~ 430VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Output Voltage Range	184 - 264.5VAC or 195.5 - 253VAC (Selectable)
Nominal Output Current	15.6A
Power Factor	> 0.9
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-Up Voltage / Auto Restart Voltage	120 - 140VAC / 180VAC
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	450VDC
MPP Voltage Range	120VDC ~ 430VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%

Technical Specifications

HYBRID OPERATION

PV INPUT (DC)

Nominal DC Voltage / Maximum DC Voltage	360VDC / 450VDC
Start-Up Voltage / Initial Feeding Voltage	110VDC / 120VDC
MPP Voltage Range	120VDC ~ 430VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A

GRID OUTPUT (AC)

Nominal Output Voltage	220 / 230 / 240VAC
Output Voltage Range	184 - 264.5VAC or 195.5 - 253VAC (Selectable)
Nominal Output Current	15.6A

AC INPUT

AC Start-Up Voltage / Auto Restart Voltage	120 - 140VAC / 180VAC
Acceptable Input Voltage Range	90 - 280VAC or 170 - 280VAC
Maximum AC Input Current	40A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	220 / 230 / 240VAC
Efficiency (DC to AC)	93%

BATTERY & CHARGER

Nominal DC Voltage	48VDC
Maximum Solar Charging Current	100A
Maximum AC Charging Current	100A
Maximum Charging Current	100A

GENERAL

PHYSICAL

Dimension, D x W x H	140 x 295 x 468mm
Net Weight	11kg

INTERFACE

Parallel Function	Yes, 9 units
Communication Port	USB / RS232 / RS485 / WiFi / Dry-contact

ENVIRONMENT

Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50°C

Product specifications are subject to change without further notice.