

Alpha Series Plus 3P 10K

HYBRID INVERTER



Features

- 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.
- Multiple communication for USB, RS-232, Modbus and SNMP.
- Monitoring software for real time status display and control.
- Custom-made firmware by ODM contract.
- Parallel operation up to 6 units.

Technical Specifications

Phase	3-phase in / 3-phase out
Maximum PV Input Power	14850W
Rated Output Power	10000W
Maximum Charging Power	9600W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720VDC / 900VDC
Start-up Voltage / Initial Feeding Voltage	320VDC / 350VDC
MPPT Voltage Range	400 ~ 800VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6
GRID OUTPUT (AC)	
Nominal Output Current	230VAC (P-N) / 400VAC (P-P)
Nominal Output Voltage	184 - 265VAC* per phase
Output Voltage Range	14.5A per phase
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC / AC)	96%
European Efficiency @ V nominal	95%

OFF-GRID OPERATION	
INPUT (AC)	
AC Start-up Voltage / Auto Restart Voltage	120 - 140VAC per phase / 180VAC per phase
Acceptable Input Voltage Range	170 - 280VAC per phase
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	900VDC
MPPT Voltage Range	400 ~ 800VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720VDC / 900VDC
Start-up Voltage / Initial Feeding Voltage	320VDC / 350VDC
MPPT Voltage Range	400 ~ 800VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Output Voltage Range	184 - 264.5VAC* per phase
Nominal Output Current	14.5A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140VAC per phase / 180VAC per phase
Acceptable Input Voltage Range	170 - 280VAC per phase
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48VDC
Maximum Charging Current	Default 60A, 10A - 200A (Adjustable)
GENERAL	
PHYSICAL	
Dimensions (D x W x H) / Net Weight	167.5 x 500 x 622 mm / 45kg
INTERFACE	
Communication Port	RS-232 / USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH ((Non-Condensing)
Operating Temperature	-10°C to 55°C
Altitude	0 ~ 1000m**

*These figures may vary depending on different AC voltage and country requirements.
Product specifications are subject to change without further notice.

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



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