HYBRIDS

MasterPower
Unlimited power

Alpha Series
WP - 15K
HYBRID INVERTER

Main Features

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in Wi-Fi for mobile monitoring (App is available).
- 150% unbalaned load support.
- Dual outputs selected as either programmable output or generator input.
- Buit-in AC coupled function.
- User-adjustable charging current and voltage.
- Reserved communication port for BMS (RS485).
- 5 years warranty.
- Parallel operation up to 6 units.

Technical Specifications

Maximum PV Input Power	22500W
Rated Output Power	15000W
Maximum Charging Power	15000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage	720VDC
Maximum DC Voltage	1000VDC
Start-up Voltage/Initial Feeding Voltage	320VDC / 350VDC
MPP Voltage Range	350VDC ~ 950VDC
No. of MPP Trackers / Max. Input Current	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2
GRID OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Output Voltage Range	184 - 265VAC per phase
Output Frequency Range	47.5 ~ 51.5Hz or 59.3 ~ 60.5Hz
Nominal Output Current	21.7A per phase
Power Factor Range	0.9 lag ~ 0.9 lead
No Load Consumption	170 W
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency@ Vnominal	> 95%

MASTER BATTERY

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OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage	120 - 140VAC per phase
Auto Restart Voltage	180VAC per phase
Acceptable Input Voltage Range	170 - 290VAC per phase
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Power	22500VDC
Maximum DC Voltage	1000VDC
MPP Voltage Range	350VDC ~ 950VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Output Frequency	50Hz / 60Hz (auto sensing)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Power	22500VDC
Nominal DC Voltage	720VDC
Maximum DC Voltage	1000VDC
Start-up Voltage / Initial Feeding Voltage	320VDC / 350VDC
MPP Voltage Range	350VDC ~ 950VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2
GRID / UTILITY OUTPUT (AC)	
Nominal Output Voltage	230VAC (P-N) / 400VAC (P-P)
Output Voltage Range	184 - 265VAC per phase
Output Frequency Range	47.5 ~ 51.5Hz or 59.3 ~ 60.5Hz
Nominal Output Current	21.7A per phase
Power Factor Range	0.9 lag ~ 0.9 lead
AC INPUT	
AC Start-up Voltage	120 - 140VAC per phase
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BATTERY MODE OUTPUT (AC)	
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BATTERY & CHARGER	
Battery Voltage Range	40 ~ 62VDC
Maximum Charging Current	300A
GENERAL	
PHYSICAL	
Dimension, D x W x H	255 x 660 x 750mm
Net Weight	78kg
IP Protection	IP 65
INTERFACE	
Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi
Intelligent Slot	Optional for SNMP and Modbus cards
ENVIRONMENT	
Humidity	0 ~ 100% RH (Non-condensing)
Operating Temperature	-25°C to 60°C, > 45°C power derating
Altitude	0 ~ 1000m**

**These figures are based on VDE-4105 standard. 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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