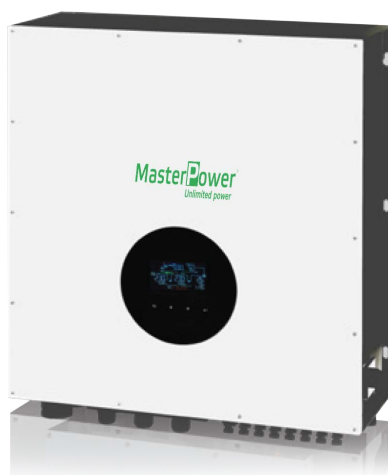


Alpha Series WP - 50K

HYBRID INVERTER



Main Features

- IP65 waterproof and dustproof.
- Built-in Wi-Fi for mobile monitoring (app available).
- User adjustable charging current up to 65 A.
- Wide battery input range.
- Integrated communication port for BMS (RS485).
- Compatible generator input.
- Parallel operation of up to 4 units
- 5 years warranty.

Technical Specifications

Maximum PV Input Power	65000 W
Rated Output Power	50000 W
Maximum Charging Power	50000 W
Grid-Tie Operation	
PV Input (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 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	4 / A: 32 A, B: 32 A, C: 32 A, D:32 A
Number of Strins Per MPP Tracker	A: 2, B: 2, C: 2, D: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	47.5 ~ 51.5 Hz o 59.3 ~ 60.5 Hz
Power Facto	0,9 lag to ~ 0,9 lead
Consumo en Vacío del Inversor	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	83 A

PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4 / A: 32A, B: 32 A, C: 32A, D:32A
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 / Inital Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers/Maximum Input Current	4 / A: 32 A, B: 32 A, C: 32 A, D:32
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	73 A per phase
AC INPUT	
AC Start-Up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC por fase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	83 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 ~ 800 VDC
Maximum Charging Current	65 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	268 x 660 x 750 mm
Net Weights (kgs)	110 kg
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485, Bluetooth, CAN y Wi-Fi
Intelligent Slot	Optional SNMP and MODBUS
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C a 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 in 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 1000m

Product specifications are subjects to change without further notice.