

Beta Series

RHI-6K-48ES

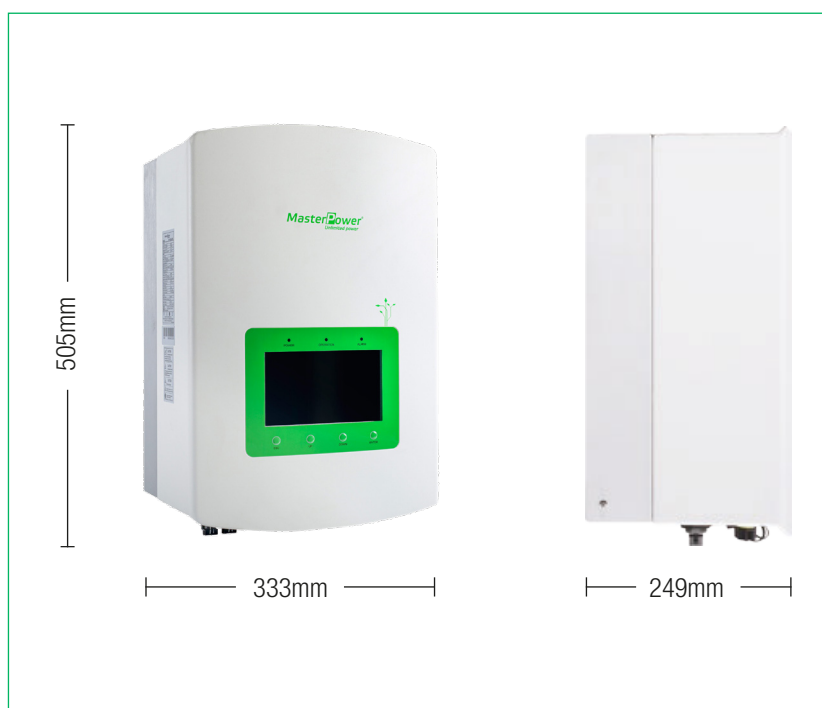
5G HYBRID INVERTER



Features

- Uninterrupted power supply, 20ms reaction.
- Compatible with both lead-acid battery and li-ion battery.
- Compatible with any existing grid-tied PV system, option to upgrade.
- Off-grid backup function.
- EPS function.
- Intelligent EMS function.
- Intelligent debugging APP which support one-click inverter configuration.
- CAN, RS-485 (Optional).
- Various work mode for different application scenario.
- Natural cooling without external fan.

Dimensions



Technical Specifications

INPUT DC (PV SIDE)	
Recommended Maximum PV Power	8kW
Maximum Input Voltage	600V
Rated Voltage	330V
Start-Up Voltage	120V
MPPT Voltage Range	90 - 520V
Maximum Input Current	14A + 14A
Maximum Short Circuit Current	17.2A / 17.2A
MPPT Number / Maximum Input Strings Number	2 / 2
BATTERY	
Battery Type	Li-ion / Lead-acid
Battery Voltage Range	42 - 58V
Battery Capacity	50 - 2000Ah
Maximum Charge / Discharge Power	5kW
Maximum Charge / Discharge Current	100A
Communication	CAN / RS-485
OUTPUT AC (GRID SIDE)	
Rated Output Power	5kW
Maximum Apparent Output Power	6kVA
Back-up Switch Time	< 20 ms
Rated Output Voltage	1 / N / PE, 220V / 230V
Rated Frequency	50 / 60Hz
Rated Output Current	22.7 / 22A
THDv (Linear Load)	2%
INPUT AC (GRID SIDE)	
Input Voltage Range	184 - 264V
Maximum Input Current	26.1A
Frequency Range	45 - 55Hz / 55 - 65Hz
OUTPUT AC (GRID SIDE)	
Rated Output Power	6kW
Maximum Apparent Output Power	6kVA
Operation Phase	1 / N / PE
Rated Grid Voltage	220 / 230V
Rated Grid Frequency	50 / 60Hz
Rated Grid Output Current	27.2A / 26.1A
Maximum Output Current	26.1A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 2%

EFFICIENCY	
Maximum Efficiency	> 97.5%
EU Efficiency	> 96.8%
PROTECTION	
Ground Fault Monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
DC Reverse-polarity Protection	Yes
Protection Class / Over Voltage Category	I / II
GENERAL DATA	
Dimensions (W*H*D)	333*505*249 mm
Weight	17 kg
Topology	High frequency isolation (for battery)
Operating Ambient Temperature Range	-25 ~ 60°C
Ingress Protection	IP65
Cooling Concept	Natural convection
Maximum Operation Altitude	2000m
Grid Connection Standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety / EMC Standard	IEC / EN 62109-1/-2, EN 61000-6-2/-3
FEATURES	
DC Connection	MC4 connector
AC Connection	Quick connection plug
Display	7.0"LCD color screen display
Communication	RS-485, Optional: Wi-Fi, GPRS

Product specifications are subject to change without further notice.