

Beta RHI Series 3P(5-10)K HYBRID INVERTER



Features

- Max. efficiency 98.4%.
- 2 MPPT and 4 DC input; Max 26A DC input current.
- 3 operating modes (self-consumption; time-of-use; off-grid back-up) and programmable energy management.
- Power supply can be switched automatically and switching time within 40ms.
- Ensures AC backup for up to 10kW of continuous power and 16kVA of peak power.
- Time of use shifting and peak shaving capabilities to grid.
- Master power supply optional arc fault circuit interrupter (AFCI) function.
- Intelligent EMS function.
- Support three-phase imbalance on backup output port.
- 24-hour fully intelligent energy management, Real-time grasp of PV plant status.
- Remotely control & upgrade function, making digital power plant maintenance at your fingertips.

Dimensions



Technical Specifications				
MODEL	5K	6K	8K	10K
INPUT DC (PV SIDE)				
Recommended Maximum PV Power	8kW	9.6kW	12.8kW	16kW
Maximum Input Voltage	1000V			
Rated Voltage	600V			
Start-Up Voltage	160V			
MPPT Voltage Range	200V-850V			
Maximum Input Current	13A/13A		26A/13A	26A/26A
Maximum Short Circuit Current	19.5A/19.5A		39A/19.5A	39A/39A
MPPT Number/Maximum Input Strings Number	2/2		2/3	2/4
BATTERY				
Battery Type	Li-ion			
Battery Voltage Range	160V-600V			
Maximum Charge/Discharge Power	5kW	6kW	8kW	10kW
Maximum Charge/Discharge Current	25A			
Communication	CAN			
OUTPUT AC (GRID SIDE)				
Rated Output Power	5kW	6kW	8kW	10kW
Maximum Apparent Output Power	5.5kVA	6.6kVA	8.8kVA	10kVA
Operation Phase	3/N/PE			
Rated Grid Voltage	380V/400V			
Rated Grid Frequency	50Hz/60Hz			
Rated Grid Output Current	7.6A/7.3A	9.2A/8.7A	12.2A/11.6A	15.2A/14.5A
Maximum Output Current	8.4A	10A	13.4A	16.7A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 2%			
OUTPUT AC (BACK-UP)				
Rated Output Power	5kW	6kW	8kW	10kW
Peak Apparent Output Power	10kVA, 60 sec	12kVA, 60 sec	16kVA, 60 sec	
Back-Up Switch Time	< 40 ms			
Rated Output Voltage	3/N/PE, 380V/400V			
Rated Frequency	50Hz/60Hz			
Rated Output Current	7.6A/7.3A	9.2A/8.7A	12.2 A/11.6A	15.2A/14.5A
THDv (@linear load)	< 2%			
EFFICIENCY				
Maximum Efficiency	98.4%			
EU Efficiency	97.7%			
MPPT Efficiency	99.9%			
Battery Charge/Discharge Efficiency	97.5%			

MODEL	5K	6K	8K	10K
PROTECTION				
Anti-islanding Protection			Yes	
Output Over Current Protection			Yes	
Short Circuit Protection			Yes	
DC Switch			Optional	
DC Reverse-Polarity Protection			Yes	
PV Over Voltage Protection			Yes	
Battery Reverse Protection			Yes	
GENERAL DATA				
Dimensions (W*H*D)			535*455*185 mm	
Weight			25.1 kg	
Topology			Transformerless	
Standby Consumption			< 15W	
Operating Ambient Temperature Range			-25 ~ +60°C	
Relative Humidity			0-100%	
Ingress Protection			IP65	
Cooling Concept			Natural convection	
Maximum Operation Altitude			4000 m	
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, IEC/EN 61000-6-1/-3			
FEATURES				
DC Connection			MC4 connector	
AC Connection			Quick connection plug	
Display			LCD	
Communication			RS-485, Optional: Wi-Fi, GPRS	

Product specifications are subject to change without further notice.