

Beta Series 1P (2.5-6)K-4G 4G SINGLE PHASE INVERTER



Features

- Maximum efficiency 97.7%.
- String current up to **14 A**.
- Super high frequency switching technology.
- Wide voltage range and low startup voltage.
- 2 MPPT design with precise MPPT algorithm.
- Integrated Export Power Manager (EPM).
- AFCI protection, proactively reduces fire risk.
- Compact and lightweight.
- Friendly and adaptable connection to the grid.

Technical Specifications

MODELS	1P 2.5K-4G	1P 3K-4G	1P 3.6K-4G	1P 4K-4G	1P 4.6K-4G	1P 5K-4G	1P 6K-4G
INPUT DC							
Recommended Maximum PV Power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Maximum Input Voltage	550 V			600 V			
Rated Voltage	250 V			330 V			
Start-up Voltage	60 V			120 V			
MPPT Voltage Range	50-450 V			90-520 V			
Maximum Input Current	14 A/14 A						
Maximum Short Circuit Current	22 A/22 A						
MPPT Number / Maximum Input Strings Number	2/2						
OUTPUT AC							
Rated Output Power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Maximum Apparent Output Power	2.8 kVA	3.3 kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	6 kVA
Maximum Output Power	2.8 kW	3.3 kW	4 kW	4.4 kW	5 kW	5 kW	6 kW
Rated Grid Voltage	1/N/PE, 220 V/230 V						
Rated Grid Frequency	50/60 Hz						
Rated Grid Output Current	11.4 A/10.9 A	13.6 A/13 A	16 A/15.7 A	18.2 A/17.4 A	20.9 A/20 A	22.7 A/21.7 A	27.3 A
Maximum Output Current	13.3 A	15.7 A	16 A	21 A	23.8 A	25 A	27.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	< 3%						
EFFICIENCY							
Maximum Efficiency	97.3%	97.3%		97.6%		97.7%	
EU Efficiency	96.5%	96.6%		97.1%		97.1%	
PROTECTION							
DC Reverse-polarity Protection				Yes			
Short Circuit Protection				Yes			
Output Over Current Protection				Yes			
Surge Protection				Yes			
Grid Monitoring				Yes			
Anti-islanding Protection				Yes			
Temperature Protection				Yes			
Integrated AFCI (DC arc-fault circuit protection)				Yes ⁽¹⁾			
Integrated DC Switch				Optional			

⁽¹⁾ Activation required.

MODELS	1P 2.5K-4G	1P 3K-4G	1P 3.6K-4G	1P 4K-4G	1P 4.6K-4G	1P 5K-4G	1P 6K-4G
GENERAL DATA							
Dimensions, W x H x D	310 x 543 x 160 mm						
Weight	11 Kg	11.2 Kg		12 Kg			
Topology	Transformerless						
Self-consumption (Night)	< 1 W						
Operating Ambient Temperature Range	-25°C ~ +60°C						
Relative Humidity	0-100%						
Ingress Protection	IP66						
Cooling Concept	Natural convection						
Maximum Operation Altitude	4000 m						
Grid Connection Standard	G98 ⁽²⁾ 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 61000-6-2/-3						
FEATURES							
DC Connection	MC4 connector						
AC Connection	Quick connection plug						
Display	LCD						
Communication	RS-485, Optional: Wi-Fi, GPRS						

⁽²⁾ G98 for 2.5 K - 3.6 K.

Product specifications are subject to change without further notice.