

Beta Series 80K-5G

THREE PHASE INVERTER 5G



Features

- 13 A per string, 150% DC overload capacity.
- 9 individual MPPT, lower loss of production.
- Efficient logic algorithm, more than 99% max.
- FV module chain monitoring, shorter O&M time.
- Remote and local intelligent IV scanning function.
- Leakage current repression technology.
- Volt-watt work mode integrated.
- DC input reverse alarm.
- Optional anti-PID function integrated.
- Reactive power compensation function.

Technical Specifications

INPUT DC	
Maximum Recommended DC Input Power	112kW
DC Input Voltage	1100V
Nominal DC Voltage	600V
Output Voltage	200V
MPPT Operating Voltage Range	180 - 1000V
Full Load MPPT Voltage Range	505 - 850V
Maximum Input Current	26*8A
Maximum Short-Circuit Current for each MPPT	40*8A
MPPT Number / Max. Input Strings Number	8/A:2; B:2; C:2; D:2; E:2; F:2; G:2; H:2
OUTPUT AC	
Rated Output Power	80kW
Maximum Apparent Output Power	88kVA
Maximum Output Power	88kW
Nominal Grid Voltage	230 / 400V
Nominal Grid Frequency	50/60Hz
AC Grid Frequency Range	45 ~ 55Hz / 55 ~ 60Hz
Operation Phases	3
Nominal Grid Output Current	115.5A
Output Current	133.7A
Power Factor (nominal output power)	0.8 Leading... 0.8 Lagging
THDi (nominal output power)	< 3%
DC Injection Current	0.5% In
EFFICIENCY	
Maximum Efficiency	99.0%
EU Efficiency	98.4%
MPPT Efficiency	99.5%

Technical Specifications

PROTECTION	
Islanding Protection	Yes
DC Reverse-Polarity Protection	Yes
Isolation Resistance Monitoring	Yes
Residual Current Detection	Yes
DC Overvoltage Protection	Type II/Type I + II
AC Overvoltage Protection	Type II
Grid Monitoring	Yes
Strings Monitoring	Yes
I/V Curve Scanning	Yes
Anti-PID Function	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
Integrated DC Switch	Yes
Integrated AC Switch	Optional
GENERAL DATA	
Dimensions (mm)	1050*567*286.5 mm
Weight (kg)	< 85kg
Topology	Transformerless
Self Consumption (night)	< 2W
Operating Ambient Temperature Range	-25 ~ 60°C
Relative Humidity	0-100%
IP Protection	IP66
Noise Emission (typical)	≤ 55dBA
Cooling Concept	Intelligent redundancy fan
Maximum Operation Altitude	4000m
STANDARDS	
Grid Connection Standard	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC62727, VDE4105-2018, IEE1547, UL1741SA
Safety/EMC Standard	IEC62109-1/-2, NB/T32004-2018, EN61000-6-1, EN61000-6-3, UL1741, FCC
FEATURES	
DC Connection	MC4
AC Connection	OT Terminal connectors
Display	LCD, 2 × 20 Z.
Communication Connections	RS-485 / PLC (optional)
Warranty	5 / 10 / 15 / 20 years

Product specifications are subject to change without further notice.