

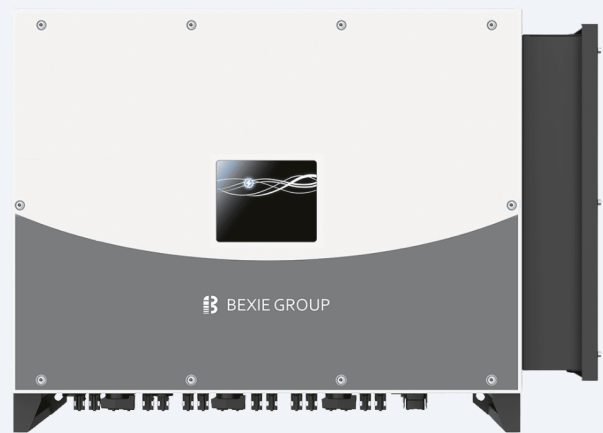
TECHNICAL DATASHEET

Three-phase Grid-tied Inverter

BE100-110KW-3PG // COMMERCIAL USE // INDUSTRIAL USE

High-performance 100–110kW three-phase grid-tied string inverter designed for commercial and industrial PV systems, delivering up to 98.8% efficiency, advanced multi-MPPT technology, and smart remote monitoring for optimized energy yield and reliable large-scale solar installations.

- ✓ Remote monitoring, configuration and upgrade.
- ✓ Compatible with large PV modules.
- ✓ Quick commissioning via mobile APP.
- ✓ IP66 protection for outdoor application.
- ✓ Up to 9 MPPTs with 150% DC overload.
- ✓ Maximum efficiency up to 98.8%.



FEATURES



MODEL	BE100KW-3PG	BE110KW-3PG
EFFICIENCY		
Max. Efficiency	98.5%	98.8%
European Efficiency	98%	98.4%
INPUT (PV)		
Max. Input Voltage	1,100V	
Max. PV Configuration (STC)	150%	
Rated Input Voltage	620V	
Max. Input Current	5 x 32A + 3 x 40A	6 x 32A + 3 x 40A
Max.Short Circuit Current	5 x 45A + 3 x 50A	6 x 45A + 3 x 50A
Start Input Voltage	250V/200V	
MPPT Operating Voltage Range	200V - 1,000V	
Max. Number of PV Strings	16 (8 x 2)	18 (9 x 2)
No. of MPPTs	8	9
OUTPUT (GRID)		
Rated AC Active Power	100,000W	110,000W
Max. AC Apparent Power	111,000VA	123,000VA
Max. AC Output Current	3 x 168.8A	3 x 187A
Rated AC Voltage	400V, 3W+N+PE or 3W+PE	
AC Voltage Range 1*	320V - 520V (Adjustable)	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range 2*	45Hz - 55Hz/55Hz - 65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)	
PROTECTION		
DC Switch	Yes	
Anti-Islanding Protection	Yes	
AC Overcurrent Protection	Yes	
AC Short Circuit Protection	Yes	
DC Reverse Protection	Yes	
Surge Arrester	DC Type II/AC Type II	
Insulation Detection	Yes	
Leakage Current Protection	Yes	
PID Recovery	Optional	
PV String Monitoring	Yes	
Consumption Monitoring	Optional	
GENERAL		
Topology	Transformerless	
IP Rating	IP66	
Night Self Consumption	<10W (Standard)	

MODEL	BE100KW-3PG	BE110KW-3PG
Cooling	Smart cooling	
Operating Temperature Range	-25°C - 60°C	
Relative Humidity Range	0 - 100%	
Max. Operating Altitude	4,000m	
Dimensions (WxHxD)	936mm x 678mm x 365mm	
Weight	91.5kg	92kg
HMI & COM		
Display	Wireless & APP+LED, LCD (Optional)	
Communication	RS 485, Optional: WiFi/GPRS/LAN	
CERTIFICATION		
Safety	IEC 62109-1, IEC 62109-2	
Grid Code	EN 50549-1/-2, IEC 61727/62116, VDE-AR-N 4105, UNE 206006/206007-1, UNE 217001	

NOTES

(1*) (2*) The range of output voltage and frequency may vary depending on different grid codes. Specifications are subject to change without advanced notice.