

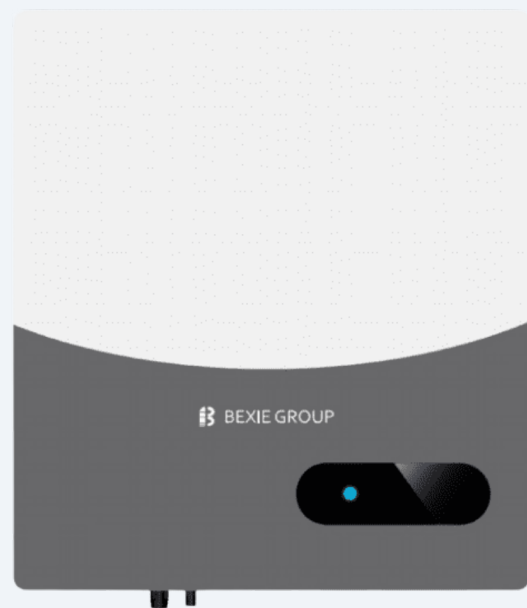
## TECHNICAL DATASHEET

# Single-phase Grid-tied Inverter

BE7-10KW-1PG // RESIDENTIAL USE // COMMERCIAL USE

Single-phase grid-tied inverter for residential use available in 7, 8, and 10 kW versions. Features up to 98.2% efficiency, IP65 protection for outdoor installation, broad compatibility with high-current PV modules, and smart app-based management with multiple communication options.

- ✓ Maximum efficiency of 98.2%
- ✓ High compatibility: supports high-current PV modules and a wide voltage range.
- ✓ High reliability: IP65 protection.
- ✓ Intelligent maintenance: monitoring, remote configuration, and quick commissioning via app.



## FEATURES



HIGH EFFICIENCY



SMART MONITORING



CLOUD CONTROL



IP65 PROTECTION



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Industrial Silvota, 33192, Llanera, Asturias

MODEL	BE 7KW-1PG	BE 8KW-1PG	BE 10KW-1PG
<b>EFFICIENCY</b>			
Max. Efficiency		98.2%	
European Efficiency		97.5%	
<b>INPUT (PV)</b>			
Max. Input Voltage		550V	
Max. PV Configuration (STC)		150%	
Rated Input Voltage		360V	
Max. Input Current	20A/20A	20A/30A	20A/30A
Max. Short Circuit Current	20A/20A	20A/40A	20A/40A
Start Input Voltage		90V	
MPPT Operating Voltage Range		60V - 540V	
Max. Number of PV Strings	1/1	1/2	1/2
No. of MPPTs		2	
<b>OUTPUT (GRID)</b>			
Rated AC Active Power	7,000W	8,000W	10,000W
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA
Max. AC Output Current	35A	40A	45.5A
Rated AC Voltage		220V/230V, L+N+PE	
AC Voltage Range 1*		160V - 300V (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)	
<b>PROTECTION</b>			
DC Switch		Yes	
Anti-Islanding Protection		Yes	
AC Overcurrent Protection		Yes	
AC Short Circuit Protection		Yes	
DC Reverse Protection		Yes	
Surge Arrester		DC Type III (Type II optional) / AC Type III (Type II optional)	
Insulation Detection		Yes	
Leakage Current Protection		Yes	
<b>GENERAL</b>			
Topology		Transformerless	
IP Rating		IP65	
Night Self Consumption		<1W (Standard)	
Cooling		Natural Cooling	
Operating Temperature Range		-25°C - 60°C	
Relative Humidity Range		0 - 100%	

MODEL	BE 7KW-1PG	BE 8KW-1PG	BE 10KW-1PG
Max. Operating Altitude		4,000m	
Dimensions (WxHxD)		400mm x 450mm x 170mm	
Weight		16kg	
HMI & COM			
Display		Wireless & APP+LED, LCD (Optional)	
Communication		Optional: WiFi/GPRS/RS485/LAN	
CERTIFICATION			
Safety		IEC62109-1, IEC62109-2	
Grid Code		DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1	

## 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.