

TECHNICAL DATASHEET

Single-phase Grid-tied Inverter

BE2-3.6KW-1PG // RESIDENTIAL USE // COMMERCIAL USE

Single-phase grid-tied inverter available in 2, 3, and 3.6 kW versions, featuring 97.8% efficiency, IP65 protection, and smart maintenance through remote monitoring and app-based configuration. A compact and reliable solution for small residential solar self-consumption systems.

- ✓ Maximum efficiency of 97.8%
- ✓ 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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MODEL	BE 2KW-1PG	BE 3KW-1PG	BE 3.6KW-1PG
EFFICIENCY			
Max. Efficiency		97.8%	
European Efficiency	96.5%	96.8%	96.8%
INPUT (PV)			
Max. Input Voltage		500V	
Max. PV Configuration (STC)		150%	
Rated Input Voltage		360V	
Max. Input Current		15A	
Max. Short Circuit Current		20A	
Start Input Voltage		70V	
MPPT Operating Voltage Range		50V - 490V	
Max. Number of PV Strings		1	
No. of MPPTs		1	
OUTPUT (GRID)			
Rated AC Active Power	2,000W	3,000W	3,600W
Max. AC Apparent Power	2,200VA	3,300VA	3,600VA
Max. AC Output Current	10A	15A	16A
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%I _n		
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 III (Type II optional) / AC Type III (Type II optional)		
Insulation Detection	Yes		
Leakage Current Protection	Yes		
GENERAL			
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 2KW-1PG	BE 3KW-1PG	BE 3.6KW-1PG
Max. Operating Altitude		4,000m	
Dimensions (WxHxD)		320mm x 344mm x 137mm	
Weight		6.5kg	
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.