BEXIE ENERGY

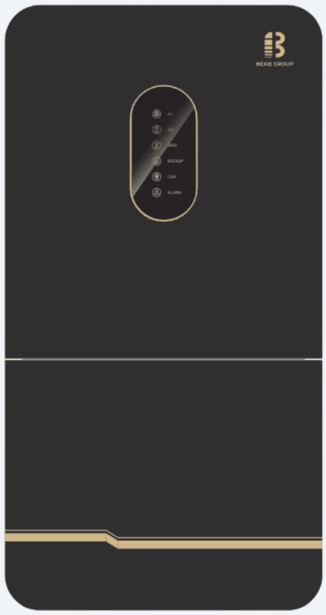
Europe based aftersale
Company HQ in Spain

TECHNICAL DATASHEET

Single-phase Hybrid Inverter

BE8-10KW-1PH (LV) // RESIDENTIAL USE // COMMERCIAL USE

Low-voltage single-phase hybrid inverter with power ratings of 8 and 10 kW. Maximum solar power, immediate backup supply in the event of power outages, and complete flexibility in low-voltage battery management. The most powerful solution in Bexie's single-phase LV range for high-consumption residential installations.



- Up to 200% oversizing with 3 MPPTs.
- Generator compatible.
- Supports 40–64V batteries with 210A charge/discharge.
- 110% continuous output and <10 ms backup transition.

FEATURES

HIGH POWER | HYBRID READY | ON/OFF GRID | SMART MONITORING | BATTERY COMPATIBLE

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www.bexieenergy.com

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BEXIE GROUP designs, manufactures and delivers high-performance solar electric technology worldwide.
Our high-efficiency solar cells enable us to produce different types of solar panels with highest efficiency.

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MODEL	BE8KW-1PH	BE10KW-1PH
EFFICIENCY		
Max. Efficiency (PV to AC)	98.0%	
Max. Efficiency (BAT to AC)	94.5%	
INPUT (PV)		
Max. PV Input Power	12,000W	15,000W
Max. PV Voltage	600V	
Start-up Voltage	90V	
MPPT Operating Voltage Range	70V-540V	
Max. Input Current per MPPT	30A / 22A / 22A	
Max. Short Circuit Current per MPPT	40A / 30A / 30A	
String per MPPT	2 / 2 / 2	
Nos. of MPPT	3	
INPUT/OUTPUT (BAT)		
Battery Type	Lithium-ion / Lead-acid	
Nominal Battery Voltage	48V	
Battery Voltage Range	40V-64V	
Max. Charge/Discharge Current	210A / 180A	210A / 210A
Max. Charge/Discharge Power	10,000W / 8,000W	10,000W / 10,000W
OUTPUT (GRID)		
Nominal AC Output Power	8,000W	10,000W
Max. AC Output Apparent Power	8,800VA	11,000VA
Max. AC Output Power (PF=1)	8,800W	11,000W
Max. AC Output Current	40A	50A
Nominal Grid Voltage	220V / 230V / 240V, L+N+PE	
Grid Voltage Range	150V-300V (Adjustable)	
Nominal Grid Frequency	50Hz / 60Hz	
Grid Frequency Range	45Hz-55Hz / 55Hz-65Hz (Adjustable)	
Power Factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI	<3% (Rated Power)	
OUTPUT (BACK UP)		
Nominal Output Power	8,000W	10,000W
Nominal Output Current	34.8A	43.5A
Peak Output Apparent Power (1s)	16,000VA	20,000VA
Nominal Output Voltage	220V / 230V / 240V, L+N+PE	
Nominal Output Frequency	50Hz / 60Hz	
Transfer Time	<10ms (typical)	
THDV	<3% @100% R Load	
PROTECTION		
Protection Category	Class I	
DC Switch	Yes	

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MODEL	BE8KW-1PH	BE10KW-1PH
Anti-islanding Protection	Yes	
AC Overcurrent Protection	Yes	
DC/AC Overvoltage Protection	DC Type II, AC Type III	
AC Short Circuit Protection	Yes	
DC Reverse Protection	Yes	
Surge Arrester	DC Type II, AC Type II	
Insulation Resistance Detection	Yes	
Leakage Current Protection	Yes	
Generator	Yes	
GENERAL		
Max. Operation Altitude	4,000m (>2,000m derating)	
Ingress Protection Degree	IP66	
Operating Temperature Range	-25°C~60°C (>45°C derating)	
Relative Humidity	0~100%	
Cooling	Fan Cooling	
Mounting	Wall bracket	
Dimensions (WxHxD)	420mm x 800mm x 240mm	
Weight	39Kg	
PV Connection Way	Terminals	
HMI & COM		
Display	Bluetooth & APP + LED , LCD (optional)	
Communication Interface	RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/ LAN	
CERTIFICATION		
Safety	IEC 62109-1&2	
Grid	IEC 61727/62116, AS 4777.2, NRS 097-2-1	