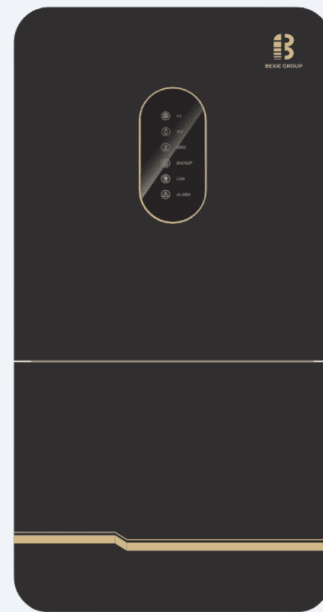


TECHNICAL DATASHEET

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.
- ✓ Stackable up to 9 units; generator compatible.
- ✓ Supports 40–64V batteries with 210A charge/discharge.
- ✓ 110% continuous output and <10 ms backup transition.

FEATURES



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Industrial Silvota, 33192, Llanera, Asturias

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	

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