BEXIE ENERGY

Europe based aftersale
Company HQ in Spain

TECHNICAL DATASHEET

Three-phase Hybrid Inverter

BE5-10KW-3PH (HV) // RESIDENTIAL USE // COMMERCIAL USE

High-voltage three-phase hybrid inverter with power ratings from 5 to 10 kW. The perfect solution for residential, commercial, and small-scale industrial installations requiring battery storage and autonomous operation. Certified for grid connection in Europe and the United Kingdom.



- Fast charging or discharging up to 50A.
- Seamless transition to backup mode,<10 ms UPS-level switching.
- IP66 outdoor and indoor application.
- Feed-in limitation function (zero export).
- PV system oversizing up to 15kW.
- Support for both local and remote communication.
- Fanless cooling design, long lifespan and quiet performance.

FEATURES

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

+34 985 194 232

www.bexieenergy.com

Calle Peña Santa 68, Polígono Industrial Silvota, 33192, Llanera, Asturias

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	BE5KW-3PH	BE6KW-3PH	BE8KW-3PH	BE10KW-3PH
EFFICIENCY				
Max. Efficiency (PV to AC)	98.20%	98.20%	98.40%	98.40%
Max. Efficiency (BAT to AC)	97.9%			
Euro. Efficiency (PV to AC)	97.2%	97.2%	97.9%	97.9%
INPUT (PV)				
Max. PV Input Power	9,000W	9,000W	15,000W	15,000W
Max. PV Voltage	1,000V			
Start-up Voltage	150V			
MPPT Voltage Range	160V-950V			
Max. Input Current	15A / 15A	15A / 15A	20A / 30A	20A / 30A
Max. Short Circuit Current	20A / 20A	20A / 20A	30A / 40A	30A / 40A
Nos. of MPPT	2			
String per MPPT	1 / 1	1 / 1	1 / 2	1 / 2
INPUT/OUTPUT (BAT)				
Battery Type	Lithium-ion / Lead-acid			
Nominal Battery Voltage	250V-600V			
Battery Voltage Range	150V-600V			
Max. Charge/Discharge Current	25A / 25A	25A / 25A	50A / 50A	50A / 50A
Max. Charge/Discharge Power	9,000W / 5,800W	9,000W / 7,000W	15,000W / 9,100W	15,000W / 11,300W
OUTPUT (GRID)				
Nominal AC Output Power	5,000W	6,000W	8,000W	10,000W
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA
Max. AC Output Power (PF=1)	5,500W	6,000W	8,800W	11,000W
Max. AC Output Current	3 x 8.3A	3 x 10A	3 x 13.3A	3 x 16.7A
Max. Single Phase power	2,500W	3,000W	4,000W	5,000W
Max. Input Power	15,000VA			
Max. Input Current	3 x 25A			
Rated Grid Voltage	380V / 400V / 415V, 3W+N+PE			
Grid Voltage Range	260V-520V (Adjustable)			
Rated 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	<5% (Rated Power)			
OUTPUT (BACK UP)				
Nominal Output Power	5,000W	6,000W	8,000W	10,000W
Nominal Output Current	3 x 7.6A	3 x 9.1A	3 x 12.2A	3 x 15.2A
Max. Single Phase Power	2,500W	3,000W	4,000W	5,000W
Peak Power (5min)	6,000VA	7,200VA	9,600VA	12,000VA
Peak Power (10s)	7,500VA	9,000VA	12,000VA	15,000VA
Nominal Output Voltage	380V / 400V / 415V, 3W+N+PE			

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MODEL	BE5KW-3PH	BE6KW-3PH	BE8KW-3PH	BE10KW-3PH
Nominal Output Frequency	50Hz / 60Hz			
Transfer Time	<10ms			
THDV	<3% (R Load)			
PROTECTION				
Protection Category	Class I			
DC Switch	Yes			
Anti-islanding Protection	Yes			
AC Over Current Protection	Yes			
AC Over Voltage Protection	Yes			
AC Short Circuit Protection	Yes			
DC Reverse Protection	Yes			
SPD	DC Type II, AC Type II			
PV Insulation Detection	Yes			
Leakage Current Protection	Yes			
GENERAL				
Max.Operation Altitude	4,000m (>2,000m derating)			
Protection Degree	IP65			
Operating Temperature Range	-25~60°C (>45°C derating)			
Relative Humidity	0~100%			
Cooling	Natural Cooling			
Mounting	Wall bracket			
Dimensions (WxHxD)	530mm x 550mm x 212mm			
Weight	30kg	30kg	32kg	32kg
PV Connection	MC4/H4			
HMI & COM				
Display	LED+APP, LCD (Optional)			
Communication Interface	RS485/CAN (BMS), RS485, RS485 (for meter), DRM, 2*DI (1 RMO), 2*DO, optional: WiFi/GPRS/LAN			
CERTIFICATION				
Grid	EN 50549-1, RFG, NC RFG, VDE 4105, VDE V0124-100			
Safety & EMC	IEC 62109-1/2, EN 62109-1/2, IEC 61000			

NOTES

The range of output voltage and frequency may vary depending on different grid codes. Specifications are subject to change without advanced noticed.