

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone APP or Web portal using our advanced monitoring platform.



1PH-Hybrid Inverter

3.6KW/4.6KW/5.0KW/6.0KW



- ✓ Fast charging or discharging up to 120A.
- ✓ Fanless cooling design, long lifespan and quiet performance.
- ✓ Seamless transition to backup mode, <10 ms UPS-level switching.
- ✓ Parallel connection up to 9.
- ✓ IP65 outdoor and indoor application.
- ✓ Feed-in limitation function (zero export).
- ✓ PV system oversizing up to 9KW
- ✓ Support for both local and remote communication



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www.bexieenergy.com



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



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3.6KW/4.6KW/5.0KW/6.0KW

Model	BE3.6KW-1PH	BE4.6KW-1PH	BE5KW-1PH	BE6KW-1PH
Efficiency				
Max. Efficiency (PV to AC)			97.3%	
Max. Efficiency (BAT to AC)			94.3%	
Euro. Efficiency (PV to AC)			96.8%	
Input (PV)				
Max. PV Input Power	6,300W		9,000W	
Max. PV Voltage			550V	
Start-up Voltage			90V	
MPPT Voltage Range			70V-540V	
Max. Input Current			15A/15A	
Max. Short Circuit Current			20A/20A	
Nos. of MPPT			2	
String per MPPT			1/1	
Input/Output (BAT)				
Battery Type			Lithium-ion/Lead-acid	
Nominal Battery Voltage			48V	
Battery Voltage Range			40V-65V	
Max. Charge/Discharge Current	60A/60A	120A/120A	120A/120A	120A/120A
Max. Charge/Discharge Power	3,000W/3,000W	6,000W/6,000W	6,000W/6,000W	6,000W/6,000W
Output (Grid)				
Nominal AC Output Power	3,600W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,960VA	4,600VA	5,500VA	6,000VA
Max. AC Output Power (PF=1)	3,960W	4,600W	5,500W	6,000W
Max. AC Output Current	18A	22A	25A	27.2A
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)		

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



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Output (Back up)				
Nominal Output Power	3,000W	4,600W	5,000W	6,000W
Nominal Output Current	13A	20A	21.7A	26A
Peak Power (>1s)	4,500VA	6,900VA	7,500VA	9,000VA
Nominal Output Voltage	220V/230V/240V, L+N+PE			
Nominal Output Frequency	50Hz/60Hz			
Transfer Time	<10ms			
THDV	<3%@100%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			
Surge Arrester	DC Type III, AC Type III			
PV Insulation Detection	Yes			
Leakage Current Protection	Yes			
HMI & COM				
Display	LED+APP			
Communication	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: Wi-Fi/GPRS/LAN			
Certification				
Grid	IEC 61727, EN 50549-1, G99, CEI 0-21, RD1699/661/647/413, NTS, UNE 217001			
Safety & EMC	IEC 62109-1/2, EN 62109-1/2, IEC 61000			
Warranty	10 Years (Optional)			

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Model	BE3.6KW-1PH	BE4.6KW-1PH	BE5KW-1PH	BE6KW-1PH
General				
Max.Operation Altitude	4000m (>2000m derating)			
Protection Degree	IP65			
Operating Temperature Range	-25~60°C (>45°C derating)			
Relative Humidity	0~100%			
Cooling	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	570mm*495mm*175mm			
Weight	20kg		25kg	
PV Connection	MC4/H4			
Battery Connection	Dedicated DC connector			
AC Connection	Dedicated AC connector			

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