

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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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)		
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		
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		
HMI & COM				
Display		LED+APP		
Communication Interface		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 and EMC		IEC 62109-1/2, EN 62109-1/2, IEC 61000		
Warranty		10 Years (Optional)		

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