

Application: Residential Use

BE 6/8/10/12/15/20KW-3PH-LV

THREE PHASE LOW VOLTAGE HYBRID INVERTER



- ✓ 3 MPPTs with Max. PV Input power of 30KW.
- ✓ Up to 380A max. charging/discharging current.
- ✓ Support smart load/generator/AC Coupling.
- ✓ Max. 9 units parallel for on-grid and off-grid operation.
- ✓ IP65: Indoor or outdoor installation.
- ✓ Intelligent Management, local & remote monitoring.



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Efficiency

Max. Efficiency	97.60%
Eur. Efficiency	97.00%

Input (PV)

Max. PV Access Power	40,000W					
Max. PV Usable Power	20,000W	20,000W	30,000W	30,000W	30,000W	30,000W
Max. PV Input Voltage	1000V					
Start-up Voltage	120V					
MPPT Operating Voltage Range	160V-980V					
Max. Input Current per MPPT	20A/20A	20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A
Max. Short Circuit Current per MPPT	30A/30A	30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A
Nos. of MPPT	2	2	3	3	3	3
String per MPPT	1/1	1/1	1/1/1	1/1/1	1/1/1	1/1/1

Input/Output (BAT)

Battery Type	Lithium-ion/Lead-acid					
No. Of Battery Input	2*					
Battery Rated Voltage	48V					
Battery Voltage Range	40V-60V					
Max. Charge/Discharge Current	380A/150A	380A/200A	380A/250A	380A/300A	380A/350A	380A/380A
Max. Charge/Discharge Power	20,000W/7,200W	20,000W/9,600W	20,000W/12,000W	20,000W/14,500W	20,000W/18,000W	20,000W/20,000W

Input/Output (Grid)

Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	13,200VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Max. Single Phase Power	3,200W	4,267W	5,333W	6,400W	8,000W	8,500W
Max. Continuous AC Passthrough (grid to load)	45A					
Nominal Grid Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					



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



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Input/Output (Grid)

Power Factor > 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)

THDi <3% @rated power

Output (Back up)

Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Peak Output Apparent Power	200%, 10s	200%, 10s	200%, 10s	200%, 10s	200%, 10s	150%, 10s
Nominal Grid Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	50Hz/60Hz					
Transfer Time	<10ms (Typical)					
THDV	<3% @100% R Load					

Input (Generator)

Battery Type 30,000W

Protection

Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse Protection	Yes
Overvoltage Protection	Yes
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
Built-in Battery Breaker	400A, Optionals
AFCI 2.0/RSD	Optional



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General

Max. Operation Altitude	4000m (>2000m derating)
Ingress Protection Degree	IP65
Operating Temperature Range	-25°C~60°C (>45°C derating)
Relative Humidity	0~100%
Cooling Method	Smart Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	460mm*742mm*266mm
Weight	50Kg

HMI & COM

Display	LED+LCD
Communication Interface	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN)

Certification

Safety	IEC/EN 62109-1/-2
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920
Grid	IEC 61727/62116, IEC 60068, IEC 61683, NRS 097-2-1, EN 50549-1/10
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 notice.
 If only one set of terminals is used, the max battery charge/discharge will be limited to 200A.