

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

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



3PH-Hybrid Inverter

12KW/15KW/20KW/25KW/30KW

- ✓ Fast charging or discharging up to 2x75A.
- ✓ Seamless transition to backup mode, <10 ms UPS-level switching.
- ✓ Parallel connection up to 10.
- ✓ IP66 outdoor and indoor application.
- ✓ Feed-in limitation function (zero export).
- ✓ PV system oversizing up to 45kW.
- ✓ Support for both local and remote communication.





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Model

BE12KW-3PH | BE15KW-3PH | BE20KW-3PH | BE25KW-3PH | BE30KW-3PH

Efficiency

Max. Efficiency (PV to AC)	98,20%	98,40%
Max. Efficiency (BAT to AC)	98,00%	
Euro. Efficiency (PV to AC)	97,90%	

Input (PV)

Max. PV Input Power	30.000W	45.000W
Max. PV Voltage	1.000V	
Start-up Voltage	150V	
MPPT Voltage Range	160V-950V	
Max. Input Current	32A/32A	32A/32A/32A
Max. Short Circuit Current	40A/40A	40A/40A/40A
Nos. of MPPT	2	3
String per MPPT	2/2	2/2/2

Input/Output (BAT)

Battery Type	Lithium-ion/Lead-acid				
Nominal Battery Voltage	230V-800V	285V-800V	380V-800V	190V-800V	230V-800V
Battery Voltage Range	120V-800V				
Max. Charge/Discharge Current	60A/60A			2 x 75A / 2 x 75A	
Max. Charge/Discharge Power	30.000W/14.400W	30.000W/18.000W	30.000W/24.000W	45.000W/30.000W	45.000W/36.000W

Output (Grid)

Nominal Output Power	12.000W	15.000W	20.000W	25.000W	30.000W
Max. AC Output Apparent Power	13.200VA	16.500 VA	22.000 VA	27.500 VA	33.000 VA
Max. AC Output Power (PF=1)	13.200W	16.500W	22.000W	27.500W	33.000W
Max. AC Output Current	3 x 20A	3 x 25A	3 x 33,3A	3 x 41,7A	3 x 50A
Max. Single Phase power	10.000W	10.000W	10.000W	11.000W	11.000W
Max. Input Power	36.000W	40,000W		45.000W	
Max. Input Current	3 x 54,5A	3x60,6A		3 x 68,2A	
Nominal Grid Voltage	380V/400V/415V, 3W+N+PE				
Grid Voltage Range	277V-520V (Adjustable)				

Remarks: For single battery port connected, the maximum charge power is 25,500W. When two ports are used, the power can reach 45,000W.



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



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Output (Grid)

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	12,000W	15.000W	20.000W	25.000W	30.000W
Nominal Output Current	3*18.2A	3 x 22,7A	3 x 30,3A	3 x 37,9A	3 x 45,5A
Peak Output Apparent Power (5min)	14,400VA	18.000VA	24.000VA	30.000VA	36.000VA
Peak Output Apparent Power (10s)	18,000VA	22.500VA	30.000VA	37.500VA	45.000VA
Nominal Output Voltage	380V/400V/415V, 3W+N+PE				
Nominal Output Frequency	50Hz/60Hz				
Transfer Time	10ms typical				
THDV	<3% @100% R Load				

Protection

Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Over Current 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
AFCI	Optional
Leakage Current Protection	Yes

HMI & COM

Display	Bluetooth & APP + LED
Communication	RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: Wi-Fi/LAN, 2 x DO, 2 x DI

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General

Max.Operation Altitude	4000m (>2000m derating)	
Ingress Protection Degree	IP66	
Operating Temperature Range	-25~60°C (>45°C derating)	
Relative Humidity	0~100%	
Cooling Method	Natural Cooling	Smart Fan Cooling
Mounting	Wall bracket	
Dimensions (W*H*D)	660mm x 596mm x 235mm	
Weight	45kg	55kg
PV Connection Way	MC4/H4	

Certification

Grid	VDE 4105, EN 50549-1, CEI 0-21, RD 1699/661/647/413, UNE 217002, IEC 61727/62116
Safety & EMC	IEC/EN 62109-1&2 & IEC/EN 61000
Warranty	10 Years

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