

BHY Series Three Phase

- C&I High Voltage Hybrid Inverter



Product Highlights:

- High MPPT efficiency up to 99.9% for maximum energy harvest
- Fast switch time (<10ms) ensures seamless backup power
- Wide MPPT voltage range: 180V-900V d.c.
- Supports 160V-700V lithium and lead-acid batteries
- Robust IP65 protection for indoor and outdoor applications
- Maximum PV input 3×36A d.c., with 4 MPPTs and 8 string inputs
- Maximum DC voltage up to 1000V for high-capacity systems

20KW/30KW



Specification

Model	BHY20K-P3EU	BHY20K-P3EU
INVERTER INPUT/OUTPUT (GRID)		
Rated Power (Input / Output)	60kW / 20kW	60kW / 30kW
Rated Voltage	30	500
Rated Frequency	50 Hz / 60 Hz	
Power Factor Range	0.8 leading ~ 0.8 lagging	
Switch Time	<10 ms	
Max. Continuous Current (Input / Output)	87 A a.c. / 29 A a.c.	87 A a.c. / 43.5 A a.c.
Max. Output Overcurrent Protection	250 V a.c. / 100 A a.c.	
BATTERY		
Battery Type	Lithium /Lead-acid	
Battery Voltage Range	125 ~ 800 V d.c.	
Rated Battery Voltage	200 V d.c.	300 V d.c.
Max. Charge Current	2*50 A d.c.	
Max. Discharge Current	2*50 A d.c.	
Reverse Connect Protection	Yes	
PV input		
No. of MPPT Tracker / Strings	2 / 2+2+2	
Max. PV Array Power	34 kW	50 kW
Max. DC Voltage	1000 V d.c.	
MPPT Voltage Range	125 ~ 850 V d.c.	
Start-up Voltage	150 V d.c.	
Max. Input Current	40+40 A d.c.	
Isc PV (Absolute Maximum)	60+60 A d.c.	
AC OUTPUT (EPS)		
EPS Rated Output Voltage	380 / 400 V d.c., 3W+N+PE	
EPS Rated Output Frequency	50 Hz / 60 Hz	
EPS Rated Output Active Power	20 kW	30 kW
EPS Rated Output Apparent Power	22 kVA	33 kVA
EPS Rated Output Current	29 A a.c.	43.5 A a.c.
Overload Capacity (Off Grid)	100% 30s / 120% 10s / 150% 2s	
EFFICIENCY		
MPPT Efficiency	99.90%	
Euro-efficiency	97.50%	
Max. Efficiency	98.10%	
PROTECTION & FEATURE		
Insulation Monitoring	Yes	
Residual Current Monitoring	Yes	
Parallel Function	Yes	
Protection Degree	IP65	
Other Protection	Overload, Over temperature, Short circuit, Active Anti-islanding	
GENERAL PARAMETER		
Storage Temperature	-40℃ ~ +70℃	
Operating Temperature	-25℃ ~ +60℃ (>+45℃, Derating)	
Humidity	0 ~ 95% (Non-condensing)	
Operating Altitude	4,000 m (>2,000 m Derating)	
Noise	<45 dB	
Demensions (W*H*D)	600*530*220 mm	
Machine Weight / N.W.	45 kg	