



BHY Series Three Phase

- C&I High Voltage Hybrid Inverter



Product Highlights:

- SiC MOSFET technology for higher efficiency, reduced size, and lightweight design.
- Fast switch time <10ms for seamless power continuity.
- Wide MPPT voltage range 150V-950V (max 1000V) for optimal energy capture.
- Dual battery interfaces: 100A×2 for independent packs or 200A parallel for flexibility.
- Supports black start, off-grid & economy mode for versatile energy applications.
- AC coupling allows easy retrofit with existing solar systems.

40KW/50KW/60KW



TEEMWAY GROUP LIMITED

Specification

Model	BHX40K-P3EU	BHX50K-P3EU	BHX60K-P3EU
INVERTER INPUT/OUTPUT (GRID)			
Rated Power (Input / Output)	138 kW / 40 kW	138kW / 50 kW	138 kW / 60 kW
Rated Voltage	380 / 400 V a.c., 3W+N+PE		
Rated Frequency	50 Hz / 60 Hz		
Power Factor Range	0.8 leading~ 0.8 lagging		
Switch Time	<10 ms		
Max. Continuous Current (Input / Output)	200 A a.c. / 58 A a. c.	200 A a. c. / 72 A a. c.	200 A a. c / 87 A a. c.
Max. Output Overcurrent Protection	123 A	153 A a. c.	185 A a. c.
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range	150 ~ 800 V d.c.		
Rated Battery Voltage	200 V d. c.	250 V d. c.	300 V d. c.
Max. Charge Current	2*100 A d. c.		
Max. Discharge Current	2*100 A d. c		
Reverse Connect Protection	Yes		
PV input			
No. of MPPT Tracker/Strings	4 / 2+2+2+2		
Max. PV Array Power	68 kW	85 kW	100 kW
Max. DC Voltage	1000 V d. c.		
MPPT Voltage Range	150 ~ 950 V d. c.		
Start-up Voltage	125 V d. c.		
Max. Input Current	8x20 A d. c.		
Isc PV (Absolute Maximum)	8x30 A d. c.		
AC OUTPUT (EPS)			
EPS Rated Output Voltage	380 / 400 V a.c., 3W+N+PE		
EPS Rated Output Frequency	50 Hz / 60 Hz		
EPS Rated Output Active Power	40 kW	50 kW	60 kW
EPS Rated Output Apparent Power	44 kVA	55 kVA	66 kVA
EPS Rated Output Current	58 A a. c.	72 A a. c.	87 A a. c.
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 0.2s		
EFFICIENCY			
MPPT Efficiency	99.9%		
Euro-efficiency	97.5%		
Max. Efficiency	98.5%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes, up to 6pcs		
Protection Degree	IP66		
Other Protection	Ground Fault Current Monitoring, Earth Fault Detection, Residual Current (RCD) Detection		
GENERAL PARAMETER			
Storage Temperature	-25°C ~ +60°C		
Operating Temperature	-25°C ~ +60°C (>+45°C, Derating)		
Humidity	0% ~ 95% (Non-condensing)		
Operating Altitude	4,000 m (>2,000 m Derating)		
Noise	<65 dB		
Demensions (W*H*D)	544*880*278 mm		
Machine Weight / N.W.	88 kg		