

HB L1 SERIES | SINGLE PHASE ESS INVERTER

PV 8KHB-180, PV 9K99HB-210, PV 10KHB-210

Energy Storage Inverter



133% PV overload



Max. 22A DC input current per string



Up to 210A max. charging/ discharging current



Support smart load/ generator



<10 ms UPS-level switching



100% load backup



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Model	PV 8KHB-180	PV 9K99HB-210	PV 10KHB-210
Efficiency			
Max. Efficiency (PV to AC)		98.0%	
Max. Efficiency (BAT to AC)		94.5%	
PV String Input Data			
Max. Input Power	12,000W		15,000W
Max. PV Configuration (STC)		133%	
Max. Input Voltage		600V	
Start-up Voltage		90V	
MPPT Operating Voltage Range		70V-540V	
Max. Input Current per MPPT		30A/22A/22A	
Max. Short Circuit Current per MPPT		40A/30A/30A	
Number of MPP Trackers		3	
Number of String per MPPT		2/2/2	
Battery Input/output Data			
Battery Type		Lithium-ion,Lead-acid	
Nominal Battery Voltage		48V	
Battery Voltage Range		40V-64V	
Max. Charging/Discharging Current	210A/180A		210A/210A
Max. Charging/Discharging Power	10,000W/8,000W		10,000W/10,000W
AC Output Data (On-grid)			
Nominal AC Output Power	8,000W	9,999W	10,000W
Rated Output Apparent Power	8,000VA	9,999VA	10,000VA
Max. AC Apparent Power	8,800VA	10,999VA	11,000VA
Max. AC Output Power (PF=1)	8,800W	10,999W	11,000W
Max. AC Output Current	40A		50A
Nominal Output Voltage		220V/230/240V, L+N+PE	
Output Voltage Range		150V-300V (Adjustable)	
Nominal AC 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)	
Max. Total Harmonic Distortion		<3% (Rated Power)	
AC Output Data (Back up)			
Nominal Output Power	8,000W	9,999W	10,000W
Nominal Output Current	34.8A		43.5A
Peak Output Apparent Power (> 1s)	16,000VA		20,000VA
Nominal Output Voltage		220V/230/240V, L+N+PE	
Nominal Output Frequency		50Hz/60Hz	
Transfer Time		<10ms	
Output THDV		<3% @100% R Load	
Protection			
Protection Category		Class I	
DC Switch		Yes	
Anti-Islanding Protection		Yes (Frequency shift)	
AC Over Current Protection		Yes	
AC Over Voltage Protection		III	
PV Over Voltage Protection		II	
BAT Over Voltage Protection		II	
AC Short Circuit Protection		Yes	
DC Reverse Protection		Yes	
Surge Protection		DC Type II, AC Type II	
PV Insulation Resistance Detection		Yes	
Leakage Current Protection		Yes	
AFCI		Optional	
GEN		Yes	
General Data			
Topology		Transformerless	
Pollution degree classification		III	
Max. Operating Altitude		4000m (>2000m derating)	
Ingress Protection Rating		IP66	
Environmental category		Outdoor	
Operating Temperature Range		-25°C~60°C (>45°C derating)	
Relative Humidity		0~100%	
Cooling Method		Fan Cooling	
Mounting Method		Wall bracket	
Advanced Parallel		Up to 9 Pcs	
Dimension (W*H*D)		420mm*800mm*240mm	
Weight		39Kg	
PV Connection		Terminals	
HMI & COM			
Display		LED+APP, LCD (Optional)	
Communication Interface		RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485 Optional: Wi-Fi/GPRS/LAN	
Certification			
Grid		IEC 61727/62116, AS 4777.2, NRS 097-2-1	
Safety		IEC 62109-1&2	
EMC		EN 61000	
Warranty		10 Years	
Country of Manufacture		China	

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