

HB L1 SERIES | SINGLE PHASE HYBRID INVERTER

PV 8KHB-180, PV 9K99HB-210



200% 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
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)	200%	
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	9,990W
Rated Output Apparent Power	8,000VA	9,990VA
Max. AC Apparent Power	8,800VA	10,990VA
Max. AC Output Power (PF=1)	8,800W	10,990W
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	9,990W
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	
AC Over Current Protection	Yes	
AC Over Voltage Protection	Yes	
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		
Max. Operating Altitude	4000m (>2000m derating)	
Ingress Protection Rating	IP65	
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.