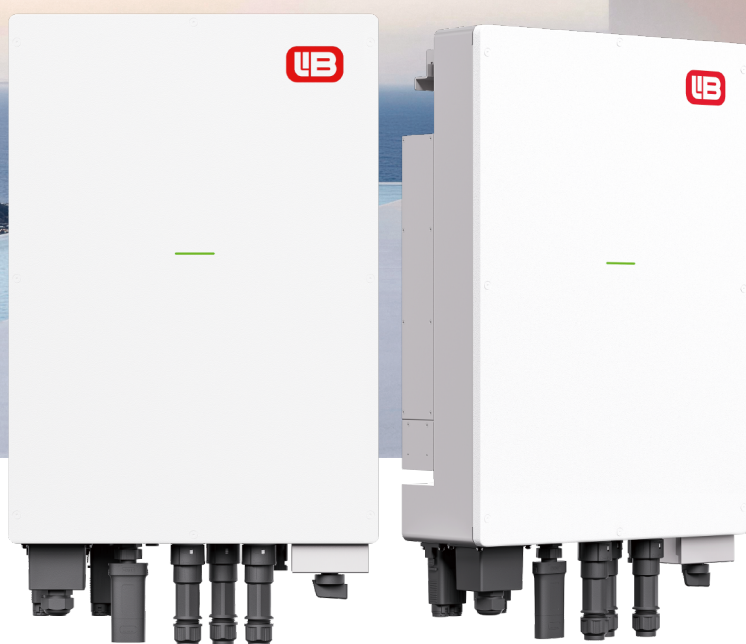


LIB Hybrid Inverter

Single Phase • Low Voltage

5-12kW



High Efficiency

SiC technology with maximum efficiency up to 98.2% for high energy efficiency.



High Compatibility

150%-200% PV Input Power, 3 MPPTs, and 20A PV Input Current for superior PV Panel compatibility.



Flexible & Durable Installation

IP65 protection and a -25°C to 60°C operating range for reliable performance.



Seamless Backup Switching

Uninterrupted power supply with ultra-fast backup switching in less than 10 ms during grid outages.

ENERGY 

www.energy-lib.com



Model	LIB RHR01LP05	LIB RHR01LP06	LIB RHR01LP08	LIB RHR01LP9.9	LIB RHR01LP10
PV Input					
Max. Input Power (Wp)	10,000	12,000	16,000	18,000	18,000
Max. Input Voltage (V)	800				
Number of MPP Trackers	3				
Number of PV Strings per MPPT	1/1/1				
MPPT Voltage Range (V)	130-800				
Start-up Voltage (V)	140				
Max. Input Current per MPPT (A)	20/20/20				
Max. Short-Circuit Current per MPPT (A)	24/24/24				
Battery					
Compatible Battery Models	LIB HomeStack series, LIB HomeTower series				
Battery Voltage Range (V)	30-60				
Max. Charging Current (A)	2 × 125				
Max. Discharging Current (A)	2 × 125				
AC Input/Output (Grid Port)					
Rated Output Power (kW)	5	6	8	9.9	10
Max. Output Apparent Power (kVA)	5.5	6.6	8.8	10.9	11
Max. Output Current (A)	25	30	40	50	50
Max. Input Power (kW)	10	12	16	18	18
Grid Frequency (Hz)	50/60				
AC Output (Backup Port)					
Rated Output Power (kW)	5	6	8	9.9	10
Max. Output Apparent Power (kVA)	5.5	6.6	8.8	10.9	11
Peak Power (kVA) / Duration	20 (10s)*				
Max. Output Current (A)	25	30	40	50	50
Rated Output Voltage (V)	220V/230V/240V, L/N/PE				
On/Off-Grid Switch-Over Time (ms)	<10				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General					
Dimensions (W×H×D)(mm)	465 x 665 x 165				
Weight (kg)	36				
Noise Level (dB)	<45				
Operating Temperature (°C)	-25-60 (>40 Derating)				
Operating Altitude (m)	≤ 4000m (>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Rating	IP65				
Topology	Non-isolated				
Communication Port	RS485 ×1, Wi-Fi/4G dongle ×1, DO ×2, DRM ×1				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection: DC Type II / AC Type III; AFCI (Optional); PID (Optional)				
Certifications					
Safety	IEC62109-1&2, IEC62477-1				
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				
Grid	AS4777.2:2020+Amd 1:2021				

- ◎ Overload output is dependent on sufficient PV and battery energy.
- ◎ The information contained in this document is subject to change without notice.
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