

LIB Hybrid Inverter

5-12kW

Three Phase • Low Voltage



100% Three-Phase Unbalanced Output

100% three-phase unbalanced output with independent phase control.



High Compatibility

150%~200% PV Input Power, 3 MPPTs, and 20A PV Input Current for higher 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.



Model	LIB RHR01L3P06	LIB RHR01L3P08	LIB RHR01L3P9.9	LIB RHR01L3P10	LIB RHR01L3P12
PV Input					
Max. Input Power (Wp)	12,000	16,000	18,000	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)	6	8	9.9	10	12
Max. Output Apparent Power (kVA)	6.6	8.8	10.9	11	13.2
Max. Output Current (A)	10	13.3	16	16	20
Max. Input Apparent Power (kVA)	12	16	19.8	20	24
Rated Grid Input Current (A)	18.2/17.4	24.3/23.2	30/28.7	30.3/30	36.4/34.8
Max. Grid Input Current (A)	18.2	24.3	30	30.3	36.4
Rated Voltage (V)	220/380, 230/400, 3L/N/PE				
Grid Voltage Range (V)	184-276 (L-N)				
Grid Frequency (Hz)	50/60				
Grid Frequency Range (Hz)	45-55/55-65				
Power Factor	0.8 leading-0.8 lagging				
THDi (@Rated Power)	< 3%				
AC Output (Backup Port)					
Rated Output Power (kW)	6	8	9.9	10	12
Max. Output Apparent Power (kVA)	6.6	8.8	10.9	11	13.2
Peak Power (kVA) / Duration	20 (10s)*				
Max. Output Current (A)	10	13.3	16	16	20
Rated Output Voltage (V)	220/380, 230/400, 3L/N/PE				
Rated Output Frequency (Hz)	50/60				
THDu (@Linear Load)	<3%				
On/Off-Grid Switch-Over Time (ms)	<10				
Smart Port					
GEN Rated Input Voltage (V)	220/380, 230/400, 3L/N/PE				
GEN Voltage Range (V)	184-276 (L-N)				
GEN Max. Current (A)	36.4				
Rated Input Frequency (Hz)	50/60				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General					
Dimensions (W×H×D) (mm)	465 × 665 × 165				
Weight (kg)	36				
Noise Level (dB)	<45				
Operating Temperature Range (°C)	-25-60 (>40 Derating)				
Operating Altitude (m)	≤ 4000m (>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Rating	IP65				
Topology	Non-isolated				
Communication	WIFI, 4G, Bluetooth, RS485				
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, EN50549-1				