

Hybrid Inverter

On/off-grid | Single Phase | Low Voltage

LIB RHR01L1Pxx-AU Series



Efficient

SiC technology,
Max. efficiency up to 98.2%, high energy efficiency.



High compatibility

150%-200% PV Input Power,
3 MPPTs, PV Input Current 20A,
Higher Compatibility with PV Panel.



High power load adaptation

150-340% Grid Input Power, Max. 18kW,
Supplying to Loads & Charging Battery in Parallel.



Extensible

Max. 6 Units in Parallel (Off-grid Mode),
easy to build various power PV systems.



Flexible install

IP65 Ingress protection, 165mm Ultra-thin, adapt to a variety of installation environments.



Intelligent monitoring APP

Remote monitoring of operation, access to power benefits through APP.

Model	LIB RHR01L1P05- AU	LIB RHR01L1P06- AU	LIB RHR01L1P08- AU	LIB RHR01L1P9.9- AU	LIB RHR01L1P10- AU
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
Off-grid Output					
Rated Output Power	5kW	6kW	8kW	9.9kW	10kW
Current (inrush)	91A-10s				
Rated current	22.7A/21.7A	27.3A/26.1A	36.4A/34.8A	45A/43A	45.5A/43.5A
Rated apparent power	5kVA	6kVA	8kVA	9.9kVA	10kVA
Max. Output apparent Power	5.5kVA	6.6kVA	8.8kVA	10.9kVA	11kVA
Max. Output fault Current	253.0A/1.016s				
Peak Power& Duration	20kVA (10s)*				
Power factor range	-0.8~0.8				
Rated Output Voltage	L/N/PE, 220V/230V				
Rated output frequency	50/60Hz				
Switching Time	<10ms				
On-grid					
Rated Output Power	5kW	6kW	8kW	9.9kW	10kW
Rated current	22.7A/21.7A	27.3A/26.1A	36.4A/34.8A	45A/43A	45.5A/43.5A
Current (inrush)	<10A-6ms				
Rated apparent power	5kVA	6kVA	8kVA	9.9kVA	10kVA
Max. Output apparent Power	5.5kVA	6.6kVA	8.8kVA	10.9kVA	11kVA
Max. Output fault Current	153.75A/17.3ms				
Max. Input Power	18kW	18kW	18kW	18kW	18kW
Power factor range	-0.8~0.8				
Rated Voltage	L/N/PE, 220V/230V				
Grid Voltage Range	184~276V				
Rated Grid Frequency	50/60Hz				
Grid Frequency Range	50/60±5Hz				

* Overload output is dependent on sufficient PV and battery energy

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Diesel generator interface					
Generator voltage range	185-276V (P2N)				
Max input current	82A				
Power factor range	-0.8~0.8				
Rated grid frequency	50/60Hz				
Range Grid frequency	45Hz~55Hz/55Hz~65Hz				
Battery					
Battery Type	Lithium battery/Lead-acid battery/Sodium-ion(optional)				
Battery Voltage Range	30-60V				
Max. Charging Current	2×125A				
Max. Discharging Current	2×125A				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General					
Dimensions (W×H×D)	465mm×665mm×165mm				
Weight	36kg				
Noise	<45dB				
Operating Temperature	-25°C ~ +60°C (>40°C Derating)				
Operating Altitude	<4000m				
Cooling Method	Intelligent Air Cooling				
Ingress 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)				
Country of Manufacture	China				

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Protection					
Protective class	Class I				
Anti-islanding	Available(Frequency disturbance)				
Certification					
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				