

RSI-LF-HY Series

RSI-LF-HY Series Low Frequency Hybrid Solar Inverter On/Off Grid

Feature:

- Rated power 2KW to 4KW
 Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 60A solar charge controller
- MPPT Efficiency max 98%
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: basic Grid-tie, Off-Grid, Grid-Interactive
- Parallel operation with up to 3 units
- · Support CAN, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- · Compatible to generator



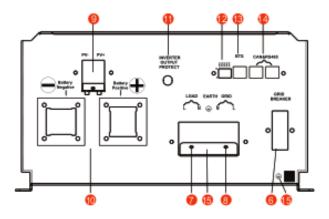
Introduction:

In comparison with pure on-grid solar inverter, RSI-LF-HY model can not only feed-in power to grid, but also store PV power to battery, and power loads directly. Combining the function of inverter, on-grid, MPPT solar charger, and battery charger to offer uninterruptible power support. Its comprehensive LCD display offers user configurable and easy accessible button operation, such as battery charging current, AC/solar charging priority, and acceptable input voltage based on different applications

Back Panel



LCD/LED Display Information



- 1. LCD display
- Status indicator
- 3. Charging indicator
- 4. Fault indicator
- 5. Function buttons
- Grid breaker
- 7. Load
- 8. Grid

- 9. PV input
- 10. Battery input
- 11. Inverter output protect
- 12. Switch
- 13. BTS
- 14. CAN&RS485 communication port
- 15. Earth



Solar System Connection



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RSI-LF-HY Series

		SPECIFICAT	ION		
	MODEL	RSI-2K-LF-HY	RSI-3K-LF-HY	RSI-4K-LF-HY	
Nominal Battery System Voltage			48VDC		
	Rated Output Power	2000W	3000W	4000W	
	Rated output voltage and frequency		230Vac / 50Hz		
	Rated output current	8.7A	13A	17.4A	
	Output voltage precision		230Vac±1%		
	Output frequency precision	50Hz±0.1%			
		Off grid≤2%			
	THD (Linear loads)	Grid discharge ≤3%			
INVERTER		Grid charge ≤3%			
OUTPUT	Dynamic response speed(0←→100%)	20ms			
	Power factor	Grid discharge 99.9% & Grid charge 99.9%			
	Overload capability	100% <load≤110%,30 minutes;<br="">110%<load≤125%,1 minutes;<br="">125%<load≤150%,30 seconds;<br="">load>150%,10 seconds; Short circuit,5 seconds</load≤150%,30></load≤125%,1></load≤110%,30>			
	Grid / Off grid change time	<10ms			
	Output wave	sine wave			
	Inverting efficiency 80% resistive loads	≥92%	≥93	%	
	AC input maximum current	17.4A	26A	34.8A	
AC INPUT	Acceptable input voltage range	Defaults 186Vac ~253Vac; Narrow 174Vac ~272Vac; Wide 95Vac ~272Vac			
	Nominal frequency	50Hz / 60Hz			
	Rated input voltage	48VDC			
DATTERY	Allowed input DC voltage range	40VDC ~ 62VDC			
BATTERY	Low voltage alarm	42VDC			
	High voltage alarm	60VDC			
SOLAD	PV Open Circuit Voltage	145VDC			
SOLAR CHARGE &	Max Solar Charging Current	60A			
AC CHARGE	Max AC Charging Current	40A	60A	80A	
	LED indication	Systematic operation, indication of charge and discharge, indication of fault			
DISPLAY	LCD display	output voltage, output current, grid voltage, grid current, voltage of storage battery, load power, chart of capacity			
&		Input LV protection			
PROTECTIO N	Protection Function	Input OV protection			
FUNCTION		Output overload protection			
		Output Short Circuit Protection			
	Mounting	Wall mounted			
MECHANI-	Machine Dimensions (W*H*D)(mm)	337*462*183mm	337*462*183mm	370*462*183mm	
CAL SPECIFICA- TIONS	Package Dimensions (W*H*D)(mm)	476*602*325mm	476*602*325mm	476*602*325mm	
	Net Weight (kg)	25	29.5	35	
	Gross Weight (kg)	30.3	33	38.5	
OTHER	Communication terminal	RS485 / CAN bus			
	Operation Temperature Range	-25°C ~ +50°C			
	Environmental Protection Rating	Indoor(IP20)			
	Ambient humidity	0 ~ 90% relative humidity(non-condensing)			
		≤3000m			

Approximate Back-up Time Table					
Model	Load(W)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)		
	200	1270	2541		
2KW	1000	208	488		
	2000	82	203		
	300	847	1694		
зкw	1500	123	315		
	3000	50	123		
	400	614	1281		
4KW	2000	89	205		
	4000	38	89		

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