

RSI-LF Series Plus Low Frequency Off Grid Solar Inverter

Feature:

- Rated power 4kw to 12kw
- Pure sine wave output
- Smart LCD setting(Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 60A/120A
- MPPT efficiency max 98%
- Powerful charge rate up to 100Amp (120A optional)
- Built-in pure copper UI transformer
- DC start & Automatic Self-Diagnostic Function
- RS485 monitoring function with free CD
- Supporting AGS, BTS port
- WIFI/GPRS remote monitoring (optional)
- Compatible to generator



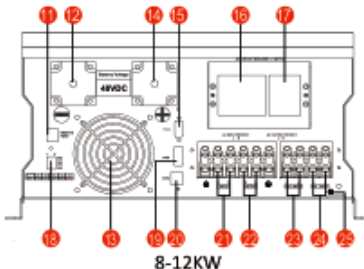
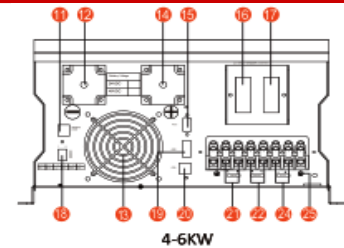
Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Back Panel



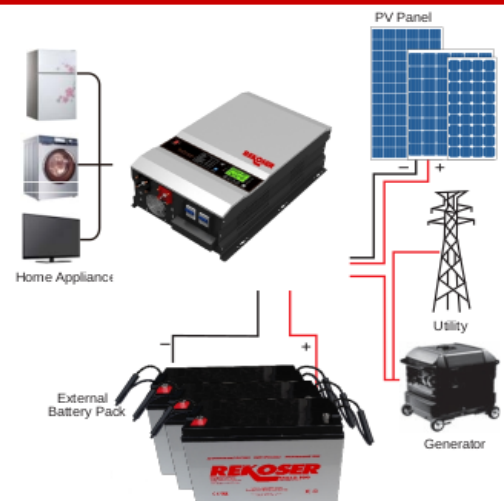
LCD/LED Display Information



1. Power saver on/off switch
2. AC Charger current setting
3. LCD display
4. Battery voltage setting
5. Inverter indicator
6. Charging indicator
7. Grid indicator

8. Fault indicator
9. Function
10. PV indicator
11. Remote port
12. BAT“-"
13. FAN
14. BAT“+"
15. RS485/CAN communication port
16. AC input/Bypass breaker
17. AC output breaker
18. Function switch(SW1-SW5)
19. AGS
20. BTS
21. AC input
22. AC output
23. PV2 input (Optional)
24. PV1 input
25. Ground

Solar System Connection



SPECIFICATION

MODEL		RSI-4K-LF +		RSI-5K-LF +	RSI-6K-LF +	RSI-8K-LF +	RSI-10K-LF +		
Nominal Battery System Voltage		24V	48V	48V	48V	48VDC	48VDC		
INVERTER OUTPUT	Rated Power	4KW		5KW	6KW	8KW	10KW	12KW	
	Surge Rating (20ms)	12KW		15KW	18KW	24KW	30KW	36KW	
	Capable Of Starting Electric Motor			2HP 3HP		4HP	5HP	6HP	
	Waveform	Pure sine wave/ same as input (bypass mode)							
	Nominal Output Voltage RMS	220V/230V/240VAC(+/-10% RMS)							
	Output Frequency	50Hz/60Hz +/-0.3 Hz							
	Inverter Efficiency(Peak)	>85%			>88%				
	Line Mode Efficiency						>95%		
Power Factor	0.8								
Typical Transfer Time	10ms(max)								
AC INPUT	Voltage	230VAC							
	Selectable Voltage Range	154~272VAC(For Personal Computers)							
	Frequency Range	50Hz/60Hz (Auto sensing)							
BATTERY	Minimum Start Voltage	20.0VDC/21.0VDC for 24VDC mode (40.0VDC/42.0VDC for 48VDC mode)							
	Low Battery Alarm	21.0VDC+/-0.3V for 24VDC mode (42.0VDC+/-0.6V for 48VDC mode)							
	Low Battery Cutoff	20.0VDC+/-0.3V for 24VDC mode (40.0VDC+/-0.6V for 48VDC mode)							
	High Voltage Alarm	32.0VDC+/-0.3V for 24VDC mode (64.0VDC+/-0.6V for 48VDC mode)							
	High Battery Voltage Recover	31.0VDC+/-0.3V for 24VDC mode (62.0VDC+/-0.6V for 48VDC mode)							
	Idle Consumption-Search Mode	<25W when power saver on							
CHARGER	Output Voltage	Depends on battery type							
	Charger AC Input Breaker Rating					30A 40A	50A	63A	
	Overcharge Protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)							
	Maximum Charge Current	65A	40A	35A	40A	70A	80A	100A	
BYPASS & PROTEC-TION	Input Voltage Waveform	Sine wave (grid or generator)							
	Nominal Input Frequency	50Hz or 60Hz							
	Overload Protection (SMPS Load)	Circuit breaker							
	Output Short Circuit Protection	Circuit breaker							
	Bypass Breaker Rating						40A 80A		
	Max Bypass Current	40Amp				80Amp			
SOLAR CHARGER	Maximum PV Array Power	1600 W	3200 W	3200W	3200W	3200W(6400W for 120A Optional)			
	Maximum PV Charge Current	60A				60A(120A Optional)			
	DC Voltage	24V/48V Auto work					48V		
	MPPT Range @ Operating Voltage	32-145VDC for 24V mode,64-147V for 48V mode					64~147VDC		
	Maximum PV Array Open Circuit Voltage	147VDC							
	Maximum Efficiency	>98%							
	Standby Power Consumption	<2W							
MECHANICAL SPECIFICATIONS	Mounting	Wall mount							
	Dimensions (W*H*D)	620*385*215mm				670*410*215mm			
	Net Weight (kg)	36		41	44	69+2.5	75.75+2.5	75.75+2.5	
	Shipping Dimensions(W*H*D)	755*515*455mm				884*618*443mm			
	Shipping Weight (kg)	56		61	64	89+2.5	95.5+2.5	95.5+2.5	
OTHER	Operation Temperature Range	0°C to 40°C							
	Storage Temperature	-15°C to 60°C							
	Audible Noise	60dB MAX							
	Display	LED+LCD							
	Loading(20GP/40GP/40HQ)	140pcs / 280pcs / 3200pcs					320pcs / 640pcs / 750pcs		

*Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Power Rate(w)	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
4000	0.2136	0.4806	1.602	3.50304
5000	0.12816	0.34176	1.19616	2.73408
6000		0.2848	0.8544	2.136
8000		0.1922	0.6408	1.4
10000		0.1367	0.4148	1.0936
12000		0.11392	0.3417	0.8544