

## RI-LF Series Low Frequency Pure Sine Wave Inverter

### Feature:

- 35A ~70A automatic 3-stage battery charger
- Charge current is Adjustable(25% ,50% ,75% ,100%)
- Inbuilt pure copper transformer
- High / Low battery voltage, overload, over temperature protection
- Battery/AC priority(option)
- RS232/Remote switch(option)



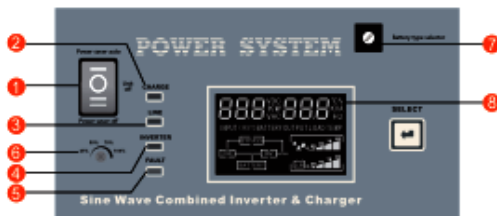
### Introduction:

Low frequency pure sine wave combined inverter & charger RI-LF Series 1-6kw: Quiet, high efficiency operation front panel LED/LCD indicators and adjustable switch selectors Selectable settings for flooded lead acid, gel, absorbed glass mat (AGM) batteries. Mainly for home and office appliance such as TV,refrigerator,fan,lights,computer etc.

### Back Panel

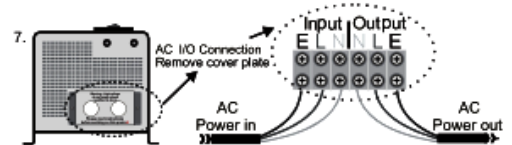
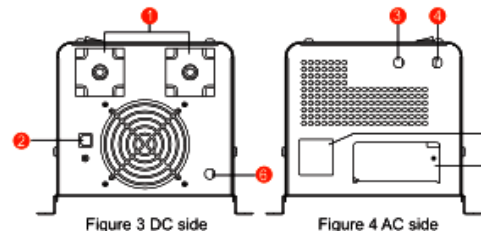


### LCD Display Information



1. Switch	Power saver auto: Power on with saver mode(power saver $\leq$ 25W) Unit Off: Power totally off(If there is AC power,inverter have charger function) Power saver off: Power on without saver mode
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|---|--------------------------|
| 2. AC charge                                    | 7. Battery type selector |
| 3. AC power on                                  | 8. LCD display           |
| 4. inverter mode                                |                          |
| 5. Fault  |                          |
| 6. Charge current adjustable: 25%,50%,75%,100%. |                          |



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|--------------------------|--|
| 1. Battery input         | 4. Inverter Output Protect                           |
| 2. Remote control        | 5. Output 10 MAX                                     |
| 3. Charger Input Protect | 6. Boat's earth or bonding system or vehicle chassis |

### Inverter Connection



SPECIFICATION																
MODEL		RI-1K- LF		RI-1.5K- LF		RI-2K- LF		RI-3K- LF			RI-4K- LF		RI-5K- LF		RI-6K- LF	
Nominal Battery System Voltage		12V	24V	12V	24V	12V	24V	12V	24V	48V	24V	48V	24V	48V	24V	48V
INVERTER OUTPUT	Rated Power	1000W		1500W		2000W		3000W			4000W		5000W		6000W	
	Surge Rating (20ms)	3000VA		4500VA		6000VA		9000VA			12000VA		15000VA		18000VA	
	Capable Of Starting Electric Motor	1HP				2HP				3HP						
	Waveform	Pure sine wave/ same as input (bypass mode)														
	Nominal Output Voltage RMS	100V/110V/120VAC or 220V/230V/240VAC										220V/230V/240VAC				
	Output Voltage Regulation	+/-10% RMS														
	Output Frequency	50Hz/60Hz +/-0.3 Hz														
	Inverter Efficiency(Peak)	>88%														
	Line Mode Efficiency	>95%														
	Power Factor	1.0														
Typical Transfer Time	10ms(max)															
AC INPUT	Voltage	120VAC/230VAC														
	Selectable Voltage Range	96~132VAC or 155~280VAC(For Personal Computers)										155~280VAC(For Computers)				
	Frequency Range	50Hz/60Hz (Auto sensing) 40-80Hz														
BATTERY	Minimum Start Voltage	10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	Low Battery Alarm	10.5VDC+/-0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	Low Battery Cutoff	10.0VDC+/-0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	High Voltage Alarm	16.0VDC+/-0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	High Battery Voltage Recover	15.5VDC+/-0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	Idle Consumption-Search Mode	<25W when power saver on														
CHARGER	Output Voltage	Depends on battery type														
	Charger AC Input Breaker Rating	10A				30A				40A						
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC, *4 for 48VDC)														
	Maximum Charge Current	35A	20A	45A	20A	65A	35A	75A	45A	30A	65A	35A	70A	40A	75A	50A
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	10A				30A				40A						
	Max Bypass Current	10Amp				30Amp				40Amp						
MECHANICAL SPECIFICA- TIONS	Mounting	Wall mount														
	Dimensions (W*H*D)	423*224*180										597*224*181				
	Net Weight (kg)	15.7	18	16.2	15.5	20.3	19.1	25.3	23.7	24	37.2	34.8	44.15	44	44.15	44
	Shipping Dimensions(W*H*D)	570*315*300										755*319*288				
	Shipping Weight (kg)	18.3	20.6	19	18.1	23.1	21.8	28.1	26.5	26.5	40.8	38.4	48	47.8	48	47.8
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)	450pcs / 850pcs / 1000pcs										6300pcs / 650pcs / 800pcs				

\*Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.4806	1.602	3.50304	7.6896	
2000	0.2136	0.4806	1.602	3.50304	7.6896
3000	0.1068	0.2848	0.8544	2.136	4.8416
4000		0.2136	0.4806	1.602	3.50304
5000		0.12816	0.34176	1.19616	2.73408
6000		0.1068	0.2848	0.8544	2.136