

EP2000 PRO SERIES

Low Frequency Power Inverter/Charger

RT SYSTEMS PROPRIETARY LIMITED

Johannesburg Head Office

Tel: +27 (0) 11 646 5250

Email: info@rtsystems.co.za

Cape Town

Tel: +27 (0) 21 761 4525

Email: info@rtsystems.co.za





INTRODUCTION

EP2000 PRO series inverter is a cost effective, intelligent with UPS function. The comprehensive LCD offers user-configurable and easy-accessible button adjustment such as battery charge current, battery charge voltage, frequency, buzzer etc. It's perfect for the user who need a simple and economical inverter, with user-friendly installation and setting. Tower and rack design available for different choices.

FEATURES

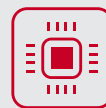
- Rated power 300W to 1000W
- Pure sine wave output
- Smart LCD setting (frequency , charge voltage, charge current, etc).
- 3 steps charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Battery reverse polarity protection (Optional)
- Deep discharge protection
- Cold start function



Cold start function



3 steps charging algorithm



Built in AVR function



RS232 (Optional) monitoring function



Overload protection



Short-circuit protection



Battery reverse polarity protection (Optional)



Support USB



DATAS CAN BE SETUP ON COMPUTER MONITORING SOFTWARE.

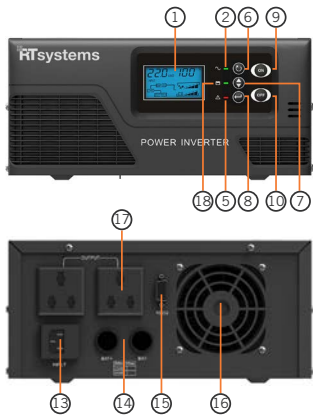
Datas including: Output frequency, charging current, charging volatge, shutdown voltage, buzzer switch and ac charging enable or not.

INVERTER SYSTEM CONNECTION

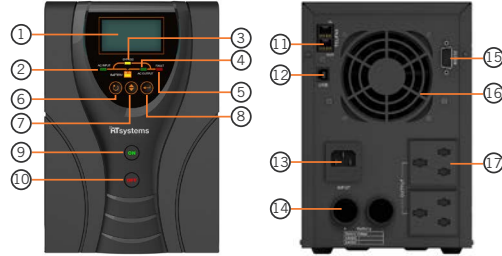
EP2000 PRO is a cost effective, multi-function Power inverter which accept Utility input and works as UPS, at the same time can connect external solar charge controller and panel to be solar system. It supply continuously green power to all the loads with pure sine wave output. This inverter are widely use at house, office, shops and schools etc

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Low Frequency Power Inverter/Charger



EP2000 PRO (Rack)



EP2000 PRO (Tower)

- | | |
|------------------|-------------------|
| 1. LCD display | 10. Power Off |
| 2. AC Input LED | 11. Fax / Tel |
| 3. Power On | 12. USB |
| 4. AC output LED | 13. AC Input |
| 5. Fault LED | 14. Battery input |
| 6. ESC | 15. RS232 |
| 7. SEL | 16. Fan |
| 8. ENTER | 17. AC output |
| 9. Power On | 18. Battery LED |

MODEL		EP20-0312 PRO	EP20-0612 PRO	EP20-0812 PRO	EP20-1012 PRO	EP20-0324 PRO	EP20-0624 PRO	EP20-0824 PRO	EP20-1024 PRO	EP20-2048 PRO
Default Battery System Voltage		12VDC				24VDC				48VDC
INVERTER OUTPUT	Rated Power	300W	600W	800W	1000W	300W	600W	800W	1000W	2100W
	Surge Rating (20ms)	900W	1800W	2400W	3000W	900W	1800W	2400W	3000W	6300W
	Waveform	Pure sine wave								
	Rated Output Voltage	Inverter: 230VAC (±2% RMS), AVR: 195VAC-245VAC								
	Output Frequency	50Hz/60Hz +/-0.2Hz								
	Invert Frequency (Peak)	>75%				>81%				>83%
	Bypass Efficiency	>95%								
Output Transfer Time	Typical:6ms 10ms(max)									
AC INPUT	Voltage	220/230/240VAC								
	Selectable Voltage Range	140~280VAC±2%								
	Low Battery Alarm	140VAC±2%								
	Low Voltage Recover	150VAC±2%								
	High Battery Alarm	280VAC±2%								
	High Voltage Recover	270VAC±2%								
	Low Frequency Alarm	45±2Hz								
	Low Frequency Recover	46±2Hz								
	High Frequency Alarm	65±2Hz								
	High Frequency Recover	64±2Hz								
	Nominal Input Range	50Hz/60Hz ±2Hz								
AC Auto Restart	YES									
BATTERY	Minimum Start Voltage	Low Battery Voltage Cutoff+0.5V				Low Battery Voltage Cutoff+0.5V				
	Low Battery Alarm	Low Battery Voltage Cutoff+0.5V				Low Battery Voltage Cutoff+1.0V				
	Low Battery Cutoff	10-12.0VDC				20.0-24.0VDC				42-44VDC
	High Battery Cutoff	Nominal Voltage +0.5V				Nominal Voltage +1.0V				
AC CHARGE	Floating Voltage	13.5/13.6/13.7VDC				27.0/27.2/27.4VDC				54/54.4/54.8VDC
	Nominal Voltage	13.8~14.5V				27.6~29V				56/56.8/57.6VDC
	Maximum Charge Current	300W 10A	600W 20A	800W 25A	1000W 30A	300W 5A	600W 10A	800W 15A	1000W 15A	3000W 18A
BYPASS & PROTECTION	Input Waveform	Pure sine wave								
	Input Frequency	50Hz or 60Hz								
	Overload Protection	110%~125%R Load fault after 30S ; 125%~150%R Load fault after 3S ; >150%R Load fault after 500ms								
	Over Temperature Protection	≥90°C								
	Bypass Output Protection	10A 250VAC								
	Output Circuit Protection	YES								
	Battery Reverse Protection	Optional								
	Battery Low Voltage Protection	YES								
	Battery High Voltage Protection	YES								
Bypass Breaker Rating	10A									
Maximum Bypass Current	10A									
MECHANICAL SPECIFICATION	Dimensions	315*145*210mm							375*192*340mm	
	(N.W)kg	300W 7.5		600W 10.7		800W 12.5		1000W 13.5		1000W 14.5
	Shipping Dimensions(W*H*D)	420*280*225mm							525*335*485mm	
	(G.W)kg	300W 8		600W 11.5		800W 13		1000W 14.0		3000W 15.5
	OTHER	Operating Temperature	0°C ~40°C 0~90% relative humidity (non-condensing)							
Storage Temperature		-15°C to 55°C								
Altitude		≤1000M								
Audible Noise		≤60dB								
Display		LED+LCD								
Cooling Mode		Fan cooling								
Fan Starting		>45°C starting, <30°C Closing								
Communication	RS232 / USB									