

PBP[®] IR SERIES INVERTER 1KW-6KW

Low Frequency Inverter
Pure sine wave combined inverter & charger

INVERTER



COPPER TRANSFORMER



IR LCD



IR LED



BATTERY CONNECTION



INPUT/OUTPUT CONNECTION

APPLICABLE



CONNECTOR

IR SERIES

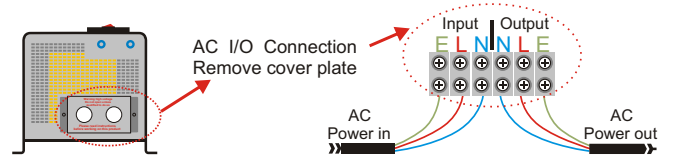
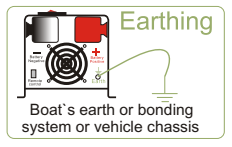
Features

- Durable construction for long life under extreme environmental conditions
- Low idle current (less than 2 watt) conserves energy when no loads are present
- Soft start capability for starting heavy loads
- Built-in starting control circuits for two- and three-wire generator starting systems
- Better thermal performance allows full output power to 50 C without de-rating
- High surge capacity starts more difficult loads and handles overload conditions reliably
- Durable powder coated, corrosion resistant steel chassis
- 30-70A automatic three-stage battery charger (bulk, absorption, and float) and battery equalization with remote temperature sensor for increased performance



WHAT CABLE TO USE in mm²:

A charger or inverter	cable run distance 0-1.5m	cable run distance 1.5-4.0m
125-180 A	50 mm ²	70 mm ²
180-330 A	70 mm ²	90 mm ²



IR SERIES INVERTER 1KW-6KW SPECIFICATION

MODEL	HV MODEL								
	IR	1012E	1024E	2012E	2024E	3024E	4048E	5048E	6048E
LINE MODE SPECIFICATIONS									
Input Voltage Waveform	Sinusoidal (utility or generator)								
Nominal Input Voltage	230Vac(120VAC selectable)								
Low Line Disconnect	184Vac ± 4%								
Low Line Re-connect	194Vac ± 4%								
High Line Disconnect	265Vac ± 4%								
High Line Re-connect	255Vac ± 4%								
Max AC Input Voltage	270Vrms								
Nominal Input Frequency	50Hz/ 60Hz(Auto detection)								
Low Line Frequency Re-connect	58+0.3Hz for 60Hz;48+0.3Hz for 50Hz;								
Low Line Frequency Disconnect	57+0.3Hz for 60Hz;47+0.3Hz for 50Hz;								
High Line Frequency Re-connect	64+0.3Hz for 60Hz;54+0.3Hz for 50Hz;								
High Line Frequency Disconnect	65+0.3Hz for 60Hz;55+0.3Hz for 50Hz;								
Output Voltage Waveform	As same as Input Waveform								
Over-Load Protection(SMPSload)	Circuit breaker								
Output Short Circuit Protection	Circuit breaker								
Efficiency (Line Mode)	>95%								
Transfer Switch Rating	30A								
Transfer Time (Ac to Dc)	10ms (typical)								
Transfer Time (Dc to Ac)	10ms (typical)								
Pass Through Without Battery	Yes								
Max Bypass Overload Current	30A				30A				
INVERT MODE SPECIFICATIONS									
Output Voltage Waveform	Sine wave								
Rated Output Power (VA)	1000		2000		3000	4000	5000	6000	
Rated Output Power (W)	1000		2000		3000	4000	5000	6000	
Power Factor	0~1.0								
Nominal Output Voltage (V)	230Vac								
Nominal Output Frequency (Hz)	50Hz ± 0.3Hz								
Auto Tracking Main Frequency(Hz)	Yes (Following Main first connection)50Hz @48-54Hz ;60Hz @58-64Hz								
Output Voltage Regulation	± 10% rms								
Nominal Efficiency	>80%								
Over-Load Protection(SMPS load)	(110%<load<125%) ± 10%: Fault (shutdown output) after 15 minutes;(125%<load<150%) ± 10%: Fault (shutdown output) after 60s;Load>150% ± 10%:Fault (shutdown output) after 20s;								
Surge Rating (10s)	3000VA		6000VA		9000VA	12000VA	15000 VA	18000VA	
Capable Of Starting Electric Motor	1 HP		1 HP		2 HP		3 HP		
Output Short Circuit Protection	Current limit (Fault after 10s)								
Inverter Breaker Size	10A		30A						
Nominal DC Input Voltage	12V	24V	12V	24V	24V	48V	48V		
Min DC Start Voltage	10V/20V/40V								
Low Battery Alarm	10.5Vdc ± 0.3Vdc for 12V battery;21.0Vdc ± 0.6Vdc for 24V battery;42.0Vdc ± 0.6Vdc for 48V battery								
Low DC Input Shut-Down	10.0Vdc ± 0.3Vdc for 12V battery;20.0Vdc ± 0.6Vdc for 24V battery;40.0Vdc ± 0.6Vdc for 48V battery								
High DC Input Alarm & Fault	16Vdc ± 0.3Vdc for 12V battery;32Vdc ± 0.6Vdc for 24V battery; 64Vdc ± 0.6Vdc for 48V battery								
High DC Input Recovery	15.5Vdc ± 0.3Vdc for 12V battery;31.0Vdc ± 0.6Vdc for 24V battery; 62.0Vdc ± 0.6Vdc for 48V battery								
Power Saver	Load 25W (Enabled on " P/S auto " setting of Remote control)								
CHARGE MODE SPECIFICATIONS									
Nominal Input Voltage	230Vac								
Input Voltage Range	196~243Vac								
Nominal Output Voltage	According to the battery type								
Nominal Charge Current	35A	35A	65A	35A	45A	35A	40A	50A	
Charge Current Regulation	± 5A dc								
Battery Initial Voltage	0 – 15.7 Vdc/31.4Vdc/62.8Vdc (can operate with 0V battery)								
Charger Short Circuit Protection	Circuit breaker								
Over Charge Protection	Bat. V 15.7Vdc/31.4Vdc/62.8Vdc,beeps 0.5s every 1s & fault after 60s								
GENERAL SPECIFICATIONS									
Safety Certification	CE								
Safety Certification	FCC								
Operating Temperature Range	0 ° C to 40 ° C								
Storage Temperature	15 ° C below zero to 60 ° C								
Operation Humidity	5% to 95%								
Audible Noise	60dB max								
Cooling	Forced air, variable speed fan								
Size	1012E/1024E/2012E/2024E/2048E/3012E/3024E/3048E:461X217X179MM/4048E/5048E//6048E:636X217X179MM								

* Product specifications are subject to change without further notice.

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