

ITS-Pure Sine Wave Power Backup Solutions



ITS-PSW series inverter/chargers is specifically designed to provide power backup during power failures. It is a basic but very cost effective way to ensure that power failures do not affect you. The unit is not designed for use together with solar electrical panels. Also care should be given to not overload the unit or have heavily inductive loads on the unit like electrical motors. For this reason ITS recommends that the unit is installed with fixed loads and not open plug points where equipment that is non ideal can accidentally be plugged in. The units feature micro computer control with fully automatic operation.

Basic operation:

The ITS-PSW series consists of an inverter, battery charger and an automatic switchover circuit. The main AC supply is connected to the input of the unit and the electrical appliances are connected to its output. During normal power conditions the ITS-PSW series will pass the power from the input to the output thus supplying the appliances with the normal mains AC power. It will also ensure that its batteries are kept in a fully charged state. When a power failure occurs, the unit will automatically switch to inverter mode and supply the connected appliances. When normal power is restored the unit will automatically switch back to the normal state and recharge the batteries for future use.

Comparison between ITS-PSW series power backup units and Generators:

ITS INVERTER/CHARGER	GENERATOR
Cost effective system & installation	Expensive (extra self start feature req.+ fuel)
Basically no maintenance	Requires services & fuel
Noise free	VERY noisy
Fast switchover	Manual start up time causes delay in power

Can be installed inside your house/business	Usually must be installed outside
Vibration free	Excessive vibration
No fumes produced	Produces polluting fumes
Extremely reliable	Reliability problems

Technical specifications:

Model:	ITS- PSW1kVA/12V	ITS- PSW3kVA/24V	ITS- PSW5kVA/48V
Output Power	1kVA	3kVA	5kVA
Input DC voltage	12V	24V	48V
Output AC voltage	220V \pm 3%		
Output frequency	50Hz \pm 0.05%		
Output waveform type	Pure Sine Wave		
Efficiency	>85%		
Power Factor	0.75		
Switchover time	<5sec		
Low battery protection	9.5~10.5V	19~21V	38~42V
Over voltage protection	14.5~15V	29V~30V	58V~60V
Overload Capacity	1.5 times of rated capacity, 10ms		
Protection function	Over load (limited protection), over charge, low battery voltage, short circuit, high Frequency		
Charging current	15A	25A	25A
Charging form	Three step: constant current, constant voltage & floating charging		
Size (CM)	31 \times 7 \times 35	40 \times 24 \times 43	40 \times 28 \times 46
G/N weight	18kg	45kg	52kg
Guarantee	1 year		



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