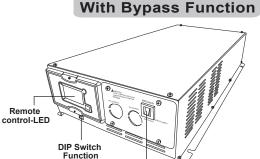
DC to AC Power inverter manual

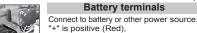
No Bypass Function Remote control-LED DIP Switch Function AC Output



- HT-S-1800
 - Rear view



- Pure sine wave output (<2% THD).
- Input & Output fully isolation design.
- High surge in motor start capacity.
- Thermal control fan.
- Auto restart.
- Power saving function (<10W load)</p>



"-" is negative(Black), Reverse polarity connection will blow internal fuse and may damage inverter permanently

DC Input

Ventilation window

Do not obstruct, allow at least one inch for airflow.

Firstly, thank you for purchase our product. Please read this manual carefully before installing or using this product.

SPECIFICATIONS -

	Model No.	HT-S-1800-12		HT-S-1800-49
	AC Voltage	HT-S-1800-12		
	Continuous Power	1800W		
	Surge Power		3600W	
OUTPUT	Waveform		PURE SINE WAVE	
	Frequency		50/60HZ±3%	
	AC Regulation		±5%	$-\mathcal{I}$ \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I}
	Receptacles		YES, 1pc	
	DC Current		A(12V) / 90A(24V) / 45A	
	DC noload current under normal mode.	1.0A	(12V) / 0.5A(24V) / 0.25	A(48V)
	DC noload current under power saving mode.	0.12A	(12V) / 0.06A(24V) / 0.0	3A(48V)
INTDUT	DC Voltage		12V/24V/48V	
INTPUT	Voltage Range	10-16VDC(12V) / 20-32VDC(24V) /	40-61V(48V)
	Efficiency (Typ.)		Cable*1pc	
	DC Connector		9pcs	
	Fuse	40.5.0.5	Pure Sine Wave	10 : 0: :/40: :)
	Battery low alarm		SV(12V) / 21±1V(24V) / 4	
	Battery low shut down		/(12V) / 20±1V(24V) / 40	
PROTEC-	Over voltage	16±0.5\	/(12V) / 32±1V(24V) / 61	±2V(48V)
TION	Over Temperature		55°C±5°C	
IION	Short Circuit Protection		Shut-off Fuse Burn out	
	Battery polarity Over Load		tart 1 time, shut down if	failed
	WORKING TEMP.	16-8		lalleu
ENVIRON-	WORKING TEMP. WORKING HUMIDITY	00	-15°C~+45°C %~90% RH non-conder	
MENT	STORAGE TEMP., HUMIDITY			
IVILIVI	TEMP.COEFFICIENT	-30°C~-	+70°C/-22°F~+158°F, 10 ±0.05%°C(0~55°C)	~95% RH
	EMI Conduction & Radiation	Compliance to	EN55022 class B, 72/24	FICEE OF/FAICE
SAFETY &	EMS Immunity		empliance to EN61000-4	
EMC	LVD		Compliance to EN6095	
	Dimension (L*W*H)		560*274*105mm	-
OTHERS	NET. Weight		7.0kgs	
	Gross Weight (With Cable)		8.0kgs	
Optio			o.ukys	
EXTRA	Byass function		Yes	
FUNTION	DC noload current under normal mode.	1.0A(12V) / 0.5A(24V) / 0.25A	A(48V)
	DC noload current under power saving mode.		(12V) / 0.2A(24V) / 0.1A	` '
INPUT	Low AC input volt transfer to inverter mode.	90)Vac+/-5% or 180Vac+/-	5%
01	Low AC input volt recovery to AC mode.	95	5Vac+/-5% or 190Vac+/-	5%
	High AC input volt transfer to inverter mode.	132Vac+/-5% or 265Vac+/-5%		-5%
	High AC input volt recovery to AC mode.	12	5Vac+/-5% or 250Vac+/-	-5%
Connector	Input AC terminal		Yes, hard wiring.	
	Output AC Terminal		Yes, hard wiring.	
	Receptacles		No	

Introduction

This model is used in a wide range of application including remote homes, RVs, sailboats and powerboats.

It will operate most televisions and VCR, personal computers, small appliances and tools such as drills, sanders, grinders, mixers and blenders. To get the most out of the power inverter, it must be installed and used properly.

Please read the instructions in this manual before installing and using this model.

Quick hook – up and testing

If you would like to quick hook-up the power inverter and check its performance before going ahead with your installation, please follow these guidelines:

 Unpack and inspect the power inverter, check to see that the power switch is in the OFF position.

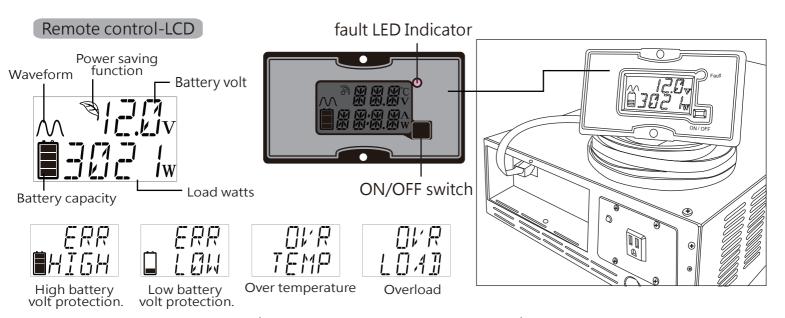
- 2. Connect the cables to the power input terminals on the rear panel of power inverter. The red terminal is positive (+) and black terminal is negative (-).
 - Connect the cables into the terminals and tighten the wing nut to clamp the wires securely.
- 3. Connect the cable from the negative terminal of the inverter to the negative terminal of the power source. Make a secure connection.
- Loosely tightened connectors result in excessive drop and may cause overheated wires and melted insulation.
- 4. Before proceed further, carefully check that cable you have just connected connects from the negative terminal of inverter to the negative output terminal of the power source.

Reverse polarity connection will blow a fuse in inverter and may permanently damage the inverter. Damage caused by reverse polarity connection is not covered by our warranty.

5. Connect the cable from the positive terminal of inverter to the positive terminal of the power source. Make secure connection.

You may observe a spark when you make this connection since current may flow to charge capacitors in the power inverter. Do not make this connection in the presence of flammable fumes, explosions or fire may result.

- Set the power switch to the ON position. Check the meters and indicators on the front panel of the inverter.
 - If does not, check your power source and the connections to inverter. The other indicators should be off.
- 7. Set power inverter switch to the OFF position, the indicator lights may blink. Plug the test load into the AC receptacle on the front panel of the inverter. Please keep switch in off position.
- 8. Set power inverter switch to the ON



position, the inverter should supply power to the load.

Installation

1. Where to install

The power inverter should be installed in a location that meets the following requirements:

- a. Dry Do not allow water to drip or splash on the inverter.
- b. Cool Ambient air temperature should be between -15°C and +45°C, the cooler the better.
- ventilated Allow at least one inch of clearance around the inverter for airflow.
 Ensure the ventilation openings on the rear and bottom of the unit are not obstructed.
- d. Safe Do not install the inverter in the same compartment as batteries or in any compartment capable of storing flammable liquids such as gasoline.

2. Cables

DC to AC inverters require high amperage/low voltage DC power to low amperage/high voltage AC power. To operate properly connect inverter DC input terminals direct to battery with heaviest wire available see chart below:

Max Watts Out	Approx. Amps	Req'd Wire Guage
150W	15A	#16
300W	30A	#12
600W	60A	#6 or 2×#10
1000W	100A	#4
1200W	120A	#4
1500W	150A	#4
1800W	180A	6 X #4
2500W	250A	2 X #4
3000W	300A	2 X #4

3. Grounding

The power inverter has a lug on the rear panel chassis ground. This is to connect the chassis of the power inverter to the ground. The ground terminals in the AC outlets on the front panel of the inverter are also connected to the ground lug. The chassis ground lug must be connected to a grounding point, which will vary depending on where the power inverter is installed. In a vehicle, connect the chassis

ground to the chassis of the vehicle. In a boat, connect to the boat's grounding systems. In a fixed location, connect the chassis ground lug to earth.



Warning!

Do not operate the power inverter without connecting it to ground. Electrical shock hazard may result.

Operation

To operate the power inverter, turn it on using the ON/OFF switch on the front panel. The power inverter is now ready to deliver AC power to your loads. If you are operating several loads from the power inverter, turn them on separately after the inverter has been turned on. This will ensure that the power inverter does not have to deliver the starting currents for all the loads at once.

Controls and indicators

The ON/OFF switch turns the control circuit in the power inverter on and off. It does not disconnect power from the power inverter.

Operating limits

1.Overload / Auto re-start

The inverter would operate most AC loads within its power rating. If the load is over the specification, HT-S-1800 will auto restart first, if not success, the inverter will shut down automatically.

2.Overtemp

The buzz will be noisy if the temperature is too high, then the inverter will be shut down automatically. Please re-set it after the inverter got cooling.

3.Input voltage

The power inverter will operate from input voltage range 10V-16V (12V spec.) or 20V-32V(2 4V spec.) or 40V-61V (48V spec.).

If the voltage drops too low(%1) or raise too high(%2), the inverter will shut down automatically. Before shut down, buzz noise will warn you.

%1:<10.0V (12V spec.) or <20V (24V spec.)
or <40V (48V spec.)
</p>

%2:>16V (12V spec.) or >32V (24V spec)
or >61V (48V spec.)

Maintenance

You should clean the exterior of the unit periodically with a dry cloth to prevent accumulation of dust and dirt.

At the same time, tighten the screws on the DC input terminals.

Troubleshooting

Television interference:

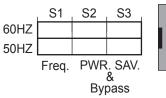
Operation of the power inverter can interfere with television reception on some channels. If this situation occurs, the following steps may help to alleviate the problem.

- -Make sure that the chassis ground lug on the back of the power inverter is solidly connected to the ground system of your vehicle, boat or home.
- -Do not operate high power loads with the power inverter while watching television.
- -Make sure that the antenna feeding your television provides an adequate (snow free) signal and that you are using good quality cable between the antenna and the television.
- -Move the television as far away from the power inverter as possible.
- -Keep the cables between the battery and the power inverter as short as possible and twist them together with about 2 to 3 twists per foot. This minimizes radiated interference from the cables.

Troubleshooting guide

Problem	possible cause	solution	
High input voltage alarm, protection (shutdown)	Battery voltage too high	Reduce input volts	
Low input voltage alarm, protection (shutdown)	Battery voltage too low	Change battery or recharge battery	
Overload protection (shutdown)	AC load watts is too high	Reduce load on the inverter./ Solve short circuit situation.	
Overtemp alarm, protection (shutdown)	Inverter temperature is too high	Allow the inverter to cool. Roduce the load if continuous operation is reguired.	

DIP Switch Function 0:OFF ■





,	52	33		
J	ON	ON	Power sav. count down time 30sec.	
	ON	OFF	Power sav. count down time 10se	
	OFF	ON	Bypass OFF	Power sav. OFF
	OFF	OFF	Bypass ON	Power sav. OFF