# DC TO AC POWER INVERTER 2000W

# DC12V or 24V to AC220V~240V Instruction Manual

## Please read user manual before use.

### **USEFUL APPLICATIONS**

RUN NOTEBOOK COMPUTERS, RADIOS, TVS, VCRS, LAMPS, FANS, FAX, DRILL, MICROWAVE OVEN, OVEN,.....ETC.

#### **SPECIFICATION**

INPUT VOLTAGE RANGE : DC 10~15V (12V) // DC 20~30V (24V)

INPUT FULL LOAD CURRENT : 200A (12V) // 100A (24V) STANDBY INPUT CURRENT : <0.7A (12V) // <0.6A (24V)

OUTPUT VOLTAGE (AC): 220V~240V

**OUTPUT WAVEFORM: MODIFY SINE WAVE** 

OUTPUT FREQUENCY: 50Hz or 60Hz CONTINUE OUTPUT POWER: 2000W

**PEAK OUTPUT POWER: 4000W** 

**EFFICIENCY** : 85% ~ 90%

BATTERY LOW PRE-ALARM :  $10.5 \pm 0.5 \text{V}$  (12V) // 21 ± 1V (24V) BATTERY LOW SHUTDOWN :  $10 \pm 0.5 \text{V}$  (12V) // 20 ± 1V (24V)

THERMAL PROTECT :  $60 \pm 5$ °C (MICROCONTROLLER ) OVERLOAD PROTECT : YES (MICROCONTROLLER ) OUTPUT SHORT PROTECT : YES ( MICROCONTROLLER )

BATTERY EX. 12V / 24V PROTECT : YES ( MICROCONTROLLER )

BATTERY POLARITY PROTECT: YES (BY FUSE)

FUSE: 15A\*16PCS (12V) // 10A\*16PCS (24V)
DIMENSION ( L\*W\*H) mm: 360\*169\*152

WEIGHT: 6.5 KG

CT : YES (BY FUSE)

#### TROUBLESHOOTING

IF THE INVERTER DOES NOT APPEAR TO BE FUNCTIONING PROPERLY, THERE ARE SEVERAL REASONS WHY THE INVERTER MAY NOT BE RESPONDING.

- 1) POOR CONTACT
  \*CLEAN CONTACT PARTS THOROUGHLY
- 2) RECEPTACVLE HAS NO POWER

  \*CHECK CAR FUSE, REPLACE DAMAGED FUSE

  \*CHECK RECEPTACLE WIRING. REPAIR IF NECESSARY
- 3) FUSE IS BLOWN

\*THE FUSE IS LOCATED INSIDE THE P.C.B. REPLACE FUSE WITH A FUSE OF EQUIVALENT VALUE

- 4) OVERLOAD CAUSED AC OUTPUT REDUCE
  \*REDUCE THE WATTAGE OF YOUR LOAD TO LOWER THAN 2000 WATTS
- 5) THERMAL CAUSED AC OUTPUT REDUCE

\*UNDER HEAVY LOADS FOR EXTENDED PERIODS OF TIME. THE AC INVERTER WILL REDUCE OUTPUT TO PREVENT DAMAGE TO EXCESS HEAT. IF THIS HAPPENS, PLASE PROCEED AS BELOW:

- (A) SWITCH OFF THE POWER SWITCH OF THIS INVERTER
- (B) DECREASE LOAD OF THIS MACHINE I. E. DISCONNECT SOME OF THE APPLIANCES OR WAIT UNTIL THIS INVERTER BECOME COOL.
- (C) SWITCH ON THE POWER SWITCH OFF THIS INVERTER.
- 6) LOW-BATTERY SHUTDOWN

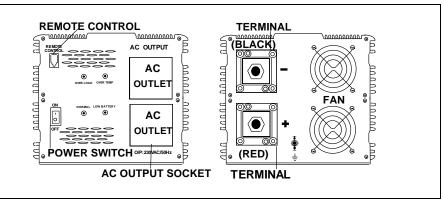
\*RECHARGE YOUR BATTERY AND RESUME OPERATION.

#### CAUTION

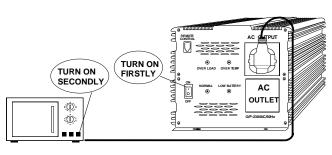
ALWAYS PLACE THE INVERTER IN AN ENVIRONMENT WHICH IS:

- (A) WELL VENTILATED
- (B) NOT EXPOSED TO DIRECT SUNLIGHT OR HEAT SOURCE
- (C) OUT OF REACH FROM CHILDREN
- (D) AWAY FROM WATER/MOISTURE, OIL OR GREASE
- (E) AWAY FROM ANY FLAMMABLE SUBSTANCE





WHEN CONNECTED TO ANY APPLIANCE, BE SURE TO TURN ON INVERTER FIRST. AND THEN, TURN ON THE POWER SWITCH OF THE APPLIANCE.



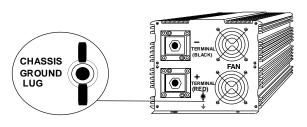
#### **WARNING SIGNAL**

LOW BATTERY PRE-ALARM BI------BI-OVER HEATING PRE-ALARM BI---BI---BI---BI
OVER LOAD PRE-ALARM BI-BI-BI-BI-BI-BI-BI

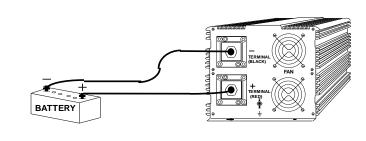
# WARNING FLUORESCENT LAMP DO NOT USE THIS DEVICE WITH FLUORESCENT LAMPS. Glow switch a b Lamp Power Factor Capacitor BALLASTS

#### CHASSIS EARTH:

THE CHASSIS EARTH LUG SHOULD BE CONNECTED TO AN EARTH POINT, WHICH WILL VARY DEPENDING ON WHER THE POWER INVERTER IS INSTALLED. IN A VEHICLE, CONNECT THE CHASSIS GROUND LUG TO THE CHASSIS OF THE VEHICLE. IN A BOAT, CONNECT TO THE BOAT'S GROUD SYSTEM. IN A FIXED LOCATION, CONNECT TO EARTH.



CAUTION: DO NOT REVERSE INPUT. USE RED BATTERY CORD TO CONNECT (+) OF A DC BATTERY TO (+) TERMINAL. AND THEN, USE BLACK BATTERY CORD TO CONNECT (-) BATTERY TO (-) TERMINAL.



IF THE TOTAL WATTS OF ELECTRICAL APPLIANCES EXCEEDS THE OUTPUT CAPACITY OF INVERTER. OR AFTER OPERATING FOR A PERIOD OF TIME. IF THE TEMPERATURE OF THE INVERTER REACHES 60 DEG C, THE INVERTER SHALL BE REDUCED AC OUTPUT BY THE PROTECTION CIRCUIT.

