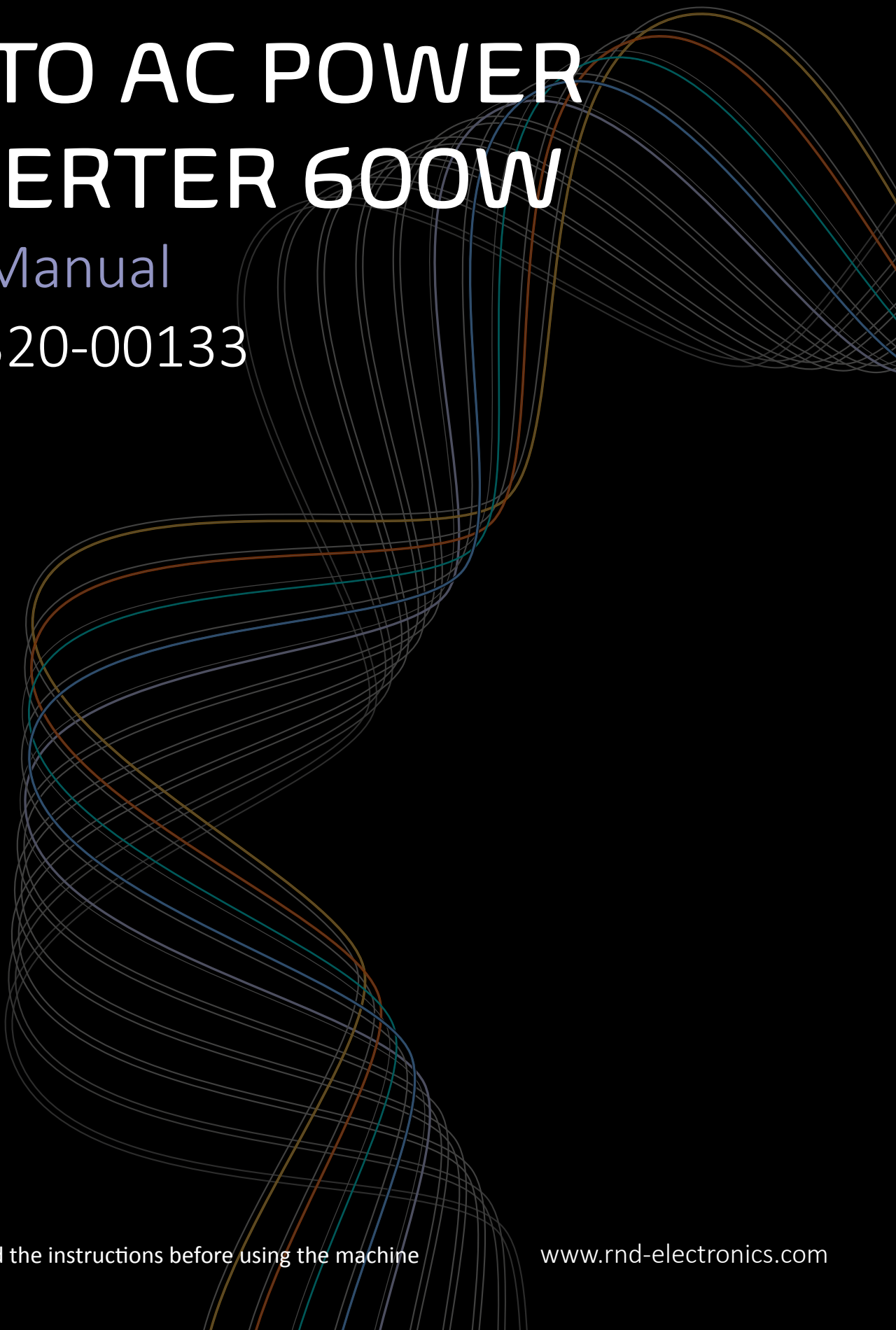
RND power

# DC TO AC POWER INVERTER 600W

## User Manual

RND 320-00133



CAUTION: Read the instructions before using the machine

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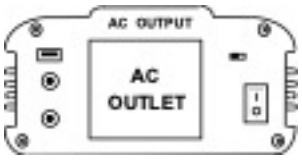
# DC12V OR 24V TO AC220V~240V INSTRUCTION MANUAL

## Please read the user manual before use.




**USEFUL APPLICATIONS**

RUN NOTEBOOK COMPUTERS, RADIOS, TVs, VCRs,
LAMPS, FANS, FAX, DRILL, . . . . . ETC.

**SPECIFICATION**

INPUT VOLTAGE RANGE : DC 10~15V (12V) // DC 20~30V (24V)
INPUT FULL LOAD CURRENT : 60A (12V) // 30A (24V)
NORMAL STANDBY INPUT CURRENT : <0.6A (12V) // <0.4A (24V)
EuP MODE STANDBY INPUT CURRENT : 0.03A~0.15A
EuP MODE AC OUTPUT : DETECTING AC OUTPUT EVERY 4 SECOND
USB PORT : OUTPUT 5VDC (500mA MAX.)
OUTPUT VOLTAGE (AC) : 230V
OUTPUT WAVEFORM : MODIFY SINEWAVE
OUTPUT FREQUENCY : 50Hz or 60Hz
CONTINUE OUTPUT POWER : 600W
PEAK OUTPUT POWER : 1500W
EFFICIENCY : 85~90%
BATTERY LOW PRE-ALARM : 10.5 ± 0.5V (12V) // 21 ± 0.5V (24V)
BATTERY LOW SHUTDOWN : 10 ± 0.5V (12V) // 20 ± 0.5V (24V)
THERMAL PROTECT : 60 ± 5oC (MICROCONTROLLER )
OVERLOAD PROTECT : YES (MICROCONTROLLER )
OUTPUT SHORT PROTECT : YES ( MICROCONTROLLER )
BATTERY EX. 12V / 24V PROTECT : YES ( MICROCONTROLLER )
BATTERY POLARITY PROTECT : YES (BY FUSE )
FUSE : 25A*3PCS (12V) // 15A*3PCS (24V)
DIMENSION ( L*W*H) mm : 190*113*62
WEIGHT : 1500g

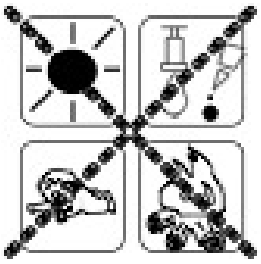
# TROUBLESHOOTING

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) RECEPTACLE 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 TO REDUCE
   *REDUCE THE WATTAGE OF YOUR LOAD TO LOWER THAN 600 WATTS
5) THERMAL CAUSED AC OUTPUT TO REDUCE
   *UNDER HEAVY LOADS FOR EXTENDED PERIODS. THE AC INVERTER WILL REDUCE OUTPUT TO PREVENT DAMAGE TO EXCESS HEAT. IF THIS HAPPENS, PLEASE PROCEED AS BELOW:

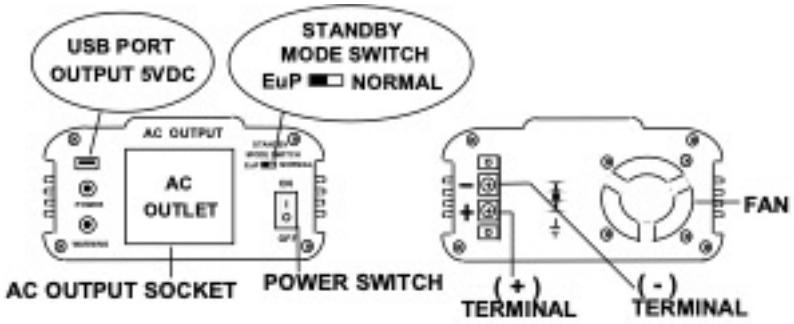
(A) SWITCH OFF THE POWER SWITCH OF THIS INVERTER
(B) DECREASE LOAD OF THIS MACHINE I. E. DISCONNECT SOME OF THE APPLIANCES OR WAIT UNTIL THIS INVERTER BECOME COOL.
(C) SWITCH ON THE POWER SWITCH OF THIS INVERTER.
6) LOW-BATTERY SHUTDOWN
   *RECHARGE YOUR BATTERY AND RESUME OPERATION.

CAUTION

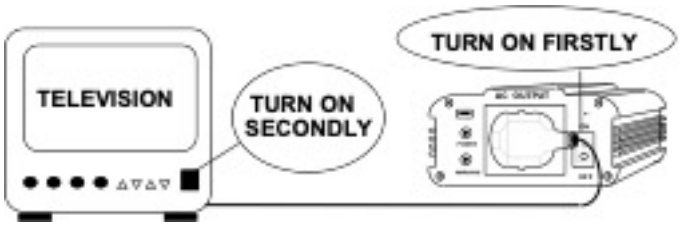


ALWAYS PLACE THE INVERTER IN AN ENVIRONMENT WHICH IS:

(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.

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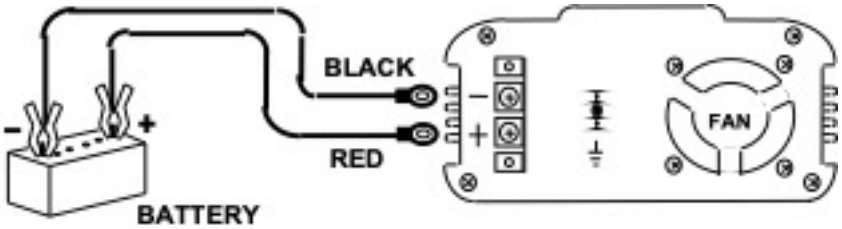
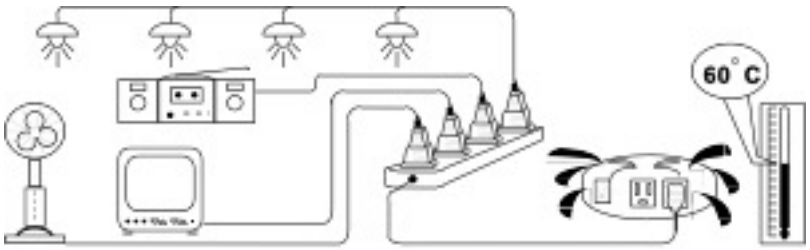


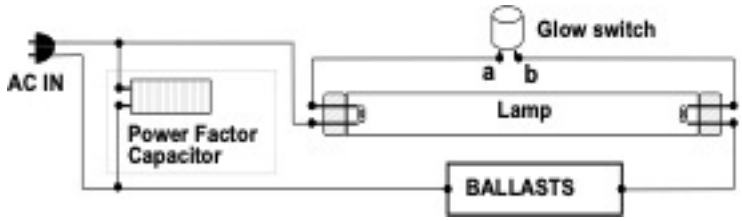
WHEN THE INVERTER OPERATES IN FULL OUTPUT CAPACITY FOR A LONG PERIOD, THE TEMPERATURE OF THE INVERTER WILL INCREASE AND POTENTIALLY SHUT DOWN BY THE OVER-TEMPERATURE PROTECTION. THEREFORE, IT IS RECOMMENDED TO REDUCE THE AC OUTPUT CAPACITY IF A LONG CONTINUOUS OPERATING TIME IS REQUIRED.




## WARNING SIGNAL

| Condition | Warning signal cycle | Shutdown signal cycle |
|---|---|---|
| Low battery alarm: | BI BI BI (pause) | BEE BEE BEE (pause) |
| Overheating alarm: | BI BI (pause) | BEE BEE (pause) |
| Overload alarm: | BI BI BI BI BI BI | Continuous tone |
| Note: BI is a short beep, and BEE is a long beep. | | |

## **WARNING** FLUORESCENT LAMP
## DO NOT USE THIS DEVICE WITH FLUORESCENT LAMPS.



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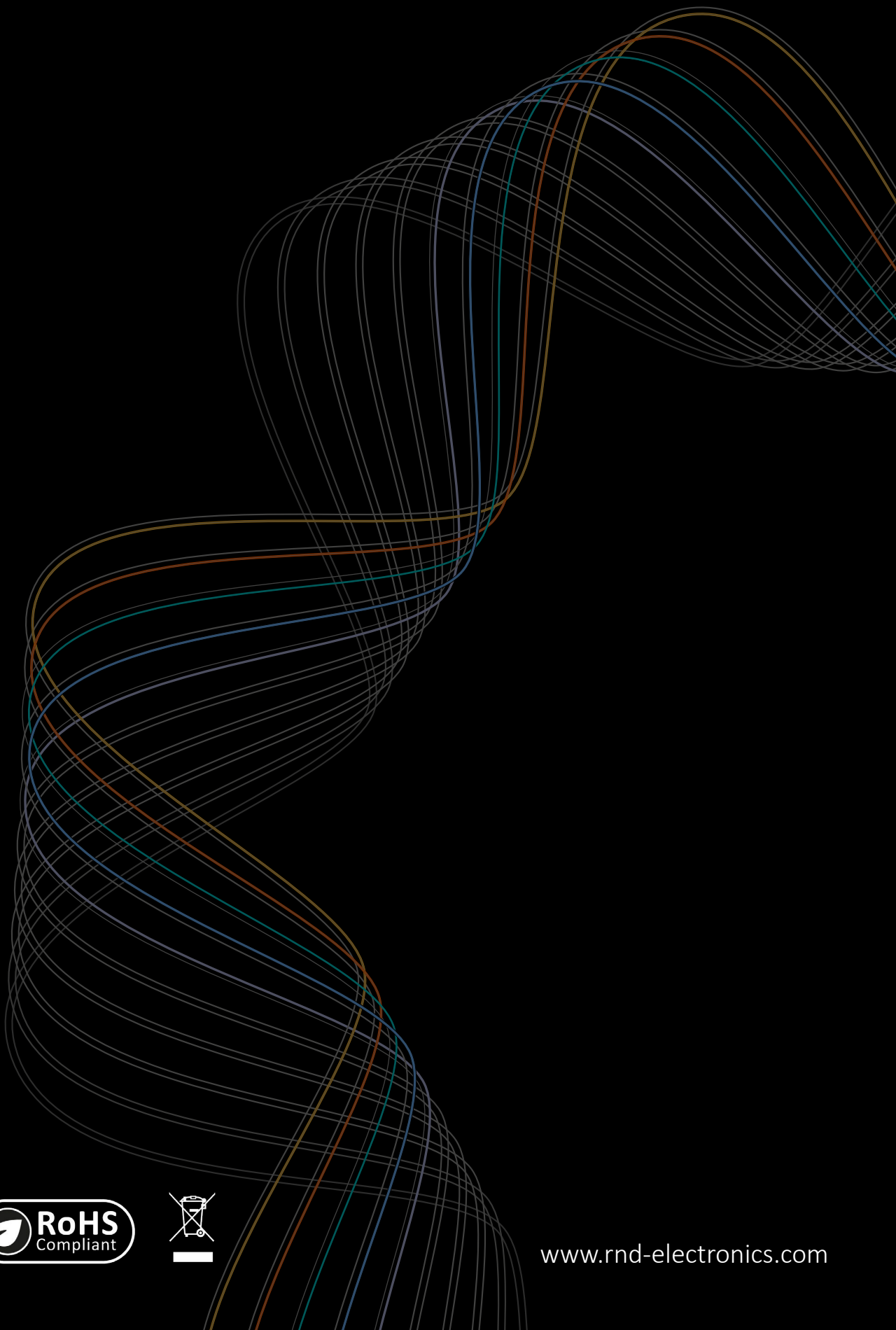

RoHS Compliant

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