

30 Watts Thermoelectric Power Generator For Stove with long life

Description

The below is a thermoelectric power generator for Gas Stove or Wood Stove or any other heat sources. The generator can be placed on the top surface or mounted onto the side wall of stove to generate the electricity for charging the battery and powering electronics with its 12 VDC and 5 VDC outputs. The generator comes with a self-powered fan to dissipate the heat. When the hot plate of the generator is heated to 380 °C, the output power at matched load is over 30watts, and at 12 VDC will go over 24.5 watts. The Generator is good for running on up to 450 °C heat source surface. It is not only a power generator, but also help circulates the heat with its attached fan.

The unit is, light in weight, small in size, easy to carry or install to any hot surface, especially suitable for field or emergency circumstances, as all kinds of small communications and emergency lighting power supply.

Patent No. ZL 2011 2 0010954.2



Mounting to the side wall of the heater to generate free electricity

The 30W generator comes with the wire for the outputs: 12 VDC car lighter adapter, 5V USB, and 13.8V for deep battery charger.

Specifications :

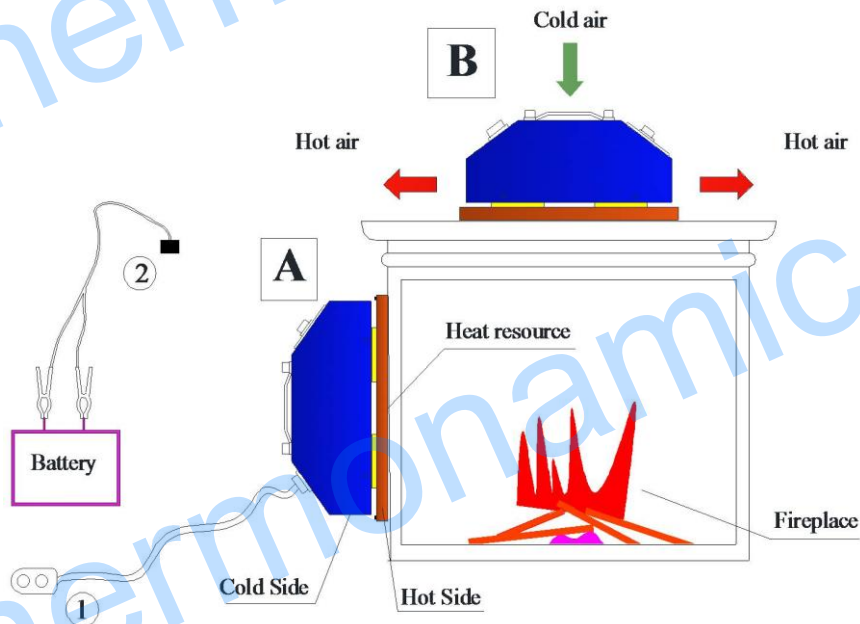
Part Number	TEG30-12V-M
Output Power	30Watts
Output Voltage	12 VDC from car cigarette lighter adapter and 5VDC from a USB port
Output Voltage from Charger	> 13VDC
Maximum Hot Surface Temperature	450 °C
Dimension Size	240 mm × 220 mm × 110mm
Weight	5.5 kgs
The output above is under 450 °C surface temperature of hot sourced	

30 Watt Thermoelectric Generator Diagram

How To Use :

A: Mounting to the side wall of heat resource by screws

B: Placed on the surface of heat resource easily

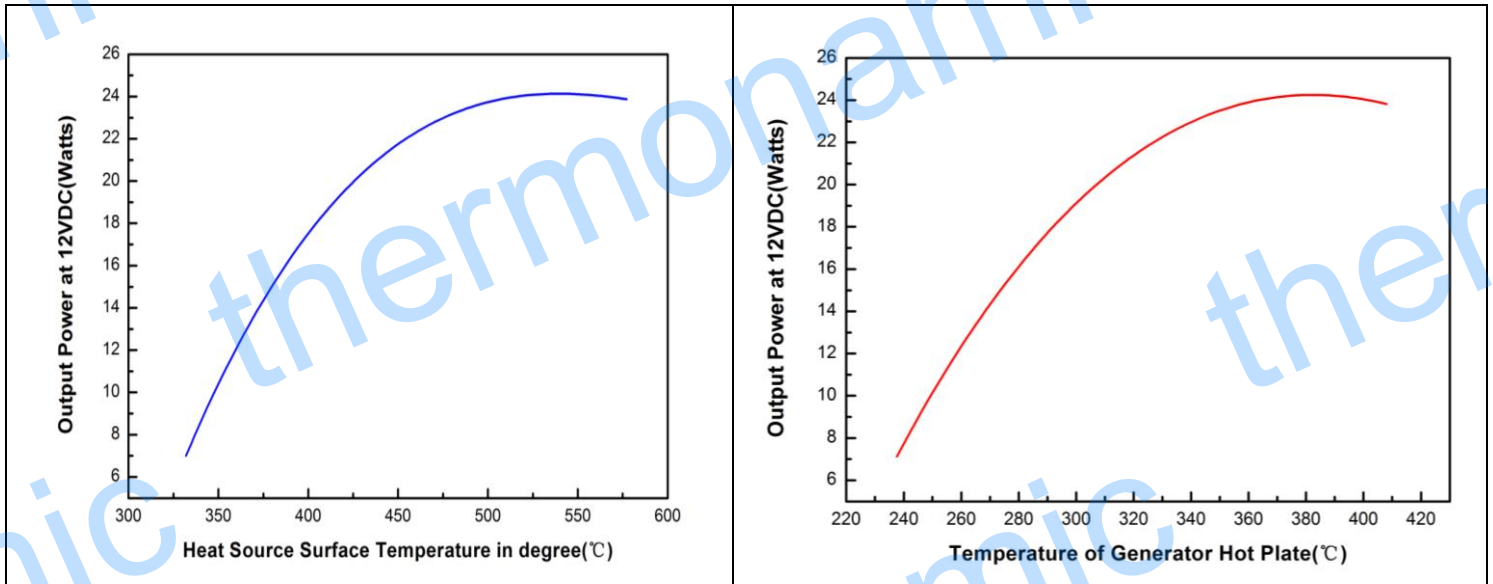


The plug ① gives the output of 12 VDC from cigarette lighter socket and 5 VDC from its USB port.

The plug ② gives over 13 VDC for battery charging.

It circulates the hot air for large area heating and save the energy.

The Output Performance:



Instructions in use

- (1) Put the generator on the heat source surface or mount it onto the wall of heat resource. About 30 seconds later, the cooling fan of the generator starts running. Wait for 5 minutes till the cooling fan running at full speed. Then you can add the load on the generator.

(2) How to install and uninstall output wires:

Install:

1) Installation



2) Align and insert



3) Clockwise rotate to lock



4) Completed installation

Dismantle:

1) Disassemble



2) Anticlockwise rotate to unlock



3) Pull out



4) Completed disassemble

Notes

- (1) The casing will become a bit hot after a while. Do not touch the generator casing.
- (2) 30 seconds after the generator is placed on the heat source surface, please check if the fans start to rotate. If you do not see the fan starts to blow the air. Please take out the generator to check. To remove, please use the hanger on the top of the generator.
- (3) Generator can operate at temperature up to 450 °C heat source surface.

Packing List

- | | | |
|---------------------------------------|-----|------|
| (1) 30W generator | one | set |
| (2) Cigarette lighter (with USB port) | one | set |
| (3) Battery Charging clip | one | pair |

Serial Number

Date	
NO.	