

# Cosmic Ray Panel

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**Abstract-Solar energy is renewable energy, so that solar panels are used as energy source for artificial satellites, rovers and orbits in studying moon and mars etc terrestrial objects. COSMIC RAY PANEL is more useful than solar panel because it can operate at lower temperatures also where solar panel is not functioning.**

## INTRODUCTION

Cosmic rays come from the universe (1),(2),(3),(4) and also present in the entire universe (5) i.e., on all planets and also in the entire universe. Cosmic Rays are used in cosmic panel whereas solar rays are used in solar panel.

## ADVANTAGES OF COSMIC PANEL OVER SOLAR PANEL

A) Cosmic rays are available in entire universe. So, this panel is used at any place of the universe. Solar rays are available at some places of planets only. On the same planet also, solar rays are not totally present, because they are available in one side of the planet only i.e., daytime and other side of a planet in dark condition i.e., night.

B) Solar panel works at certain minimum temperature only.

Charging is not essential for cosmic panel because cosmic rays come from cosmos continuously.

C) Solar rays present in morning only so solar panel is charged in daytime and also used in night-time. Is there any disturbance to fall solar rays just like heavy winds, dust covers solar panel, etc. conditions solar panel cannot function properly, these problems overcome by using cosmic panel.

## CHOOSING OF METALS FOR COSMIC RAY PANEL

The metals used for cosmic ray panel depending on what planet we have sent this cosmic ray panel, what is the estimated temperature in daytime and night-time is considered important. Suppose we have sent this cosmic ray panel to low temperature areas of planets/natural satellites like moon/artificial satellites having low temperature coefficient of resistance materials are used. If cosmic panel used at high temperatures, then materials used to withstand high temperature are used.

## PARTS OF COSMIC RAY PANEL

Cosmic ray panel main parts are

- A) Receiver
- B) Amplifier
- C) Electronic Gadget

### A) Receiver

It is an important part of cosmic ray panel which collects cosmic rays in all directions like parabolic shape, so it is present in open place for easy receiving of cosmic rays. Here we are using two dissimilar metals one is ready to accept protons and another metal balances these protons producing electricity in reverse direction. The parabolic shape is arranged in a manner to close or to move sliding conditions whenever not using or remove dust. For example, if large dust particles circulating in that planet / heavy winds blown etc. conditions.

### B) amplifier

The output voltage/current obtained in the receiver is sufficient to run Electronic Gadget or not verified by using flow chart is given in figure1. Finally Current / voltage amplified is obtained. This amplified output is given to the Electronic Gadget.

It is an instrument like rover/orbiter. The output voltage/current of amplifier is taken this Electronic Gadget, ready to working/store the electricity be used whenever necessary.

Block diagram of cosmic panel is given in figure 2.

REFERENCE

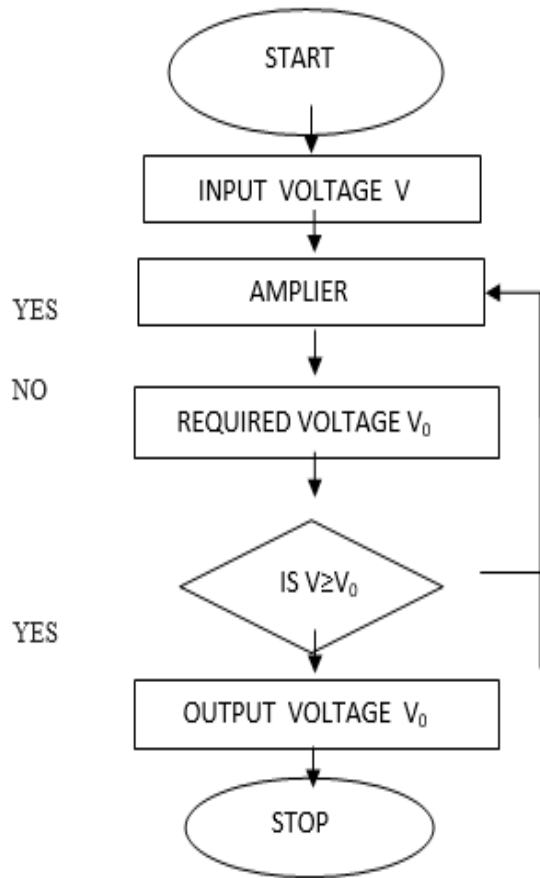


Figure 1- Flow Chart to verify the voltage

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Figure 2 Block diagram of cosmic panel

HOW TO OPERATE COSMICRAY PANEL

Cosmic rays falling on the Receiver are amplified by the Amplifier. The amplified output voltage/current is taken by the Electronic Gadget is functioning.

CONCLUSION

Cosmic ray panel is more useful than solar panel, because it works at all temperatures, dry etc. conditions. So cosmic panel is used at all places on the earth, outside the earth, on all planets, on natural satellites of different planets, on artificial satellites, rovers, functioning of robots etc. places.