

# Solar Charged Supply PR294

Renewable Energy Series - Light & Power from the Sun By Microsolve C.C.



## The Main Benefits

- Low cost energy pack for affordable low cost housing or sites which require affordable lighting
- Portable - Charge and carry
- Uses sunlight to charge battery
- From 20 to 60 hours light on one charge using a 2W LED light (Model dependant)
- 4 simultaneous 12V outputs
- USB port for cellphone charger
- Internal low battery protector
- 4 models available with different battery capacity, 7.2A, 9A, 12A & 20A
- 2 x 2W LED lights part of the kit
- More lights can be purchased as required
- Respective Solar Panel with the kit
- A life time product
- Internal MPPT Lead Acid Battery charger

## A bit about Solar Charged Supply

This state of the art product, designed and manufactured locally, integrates a microprocessor controlled MPPT (Maximum Power Point Tracking) algorithm which ensures the most efficient power is extracted from the solar panel to charge the internal lead acid battery.

An LED display indicates the approximate capacity of the battery at all times, and an audible alarm will sound every few seconds when the battery has reached 25% of capacity. Continuation of use of the battery to the point of critical discharge, will cause the system to shut down in order to save the battery from a complete discharge. During this time the audible alarm will sound every few seconds to inform the user that the battery is at a critical low discharge point, and requires a recharge.

As soon as a solar panel is connected, and sufficient sun light is available to the solar panel, the internal charger will immediately start charging the battery.

In the case that solar is not available, a 17V 1Amp PSU can be connected for a few hours to charge the internal battery.

# Specifications



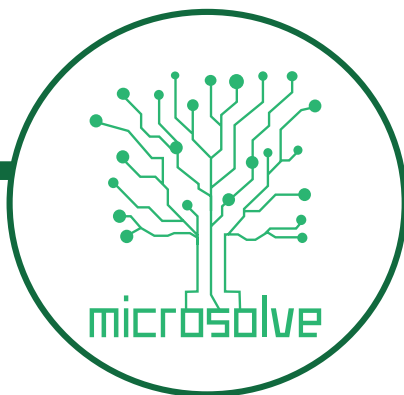
Solar Charged Supply, 4 models available

- 7.2 Amp internal battery with a 10Watt Solar panel
- 9 Amp internal battery with a 20Watt Solar panel
- 12 Amp internal battery with a 20Watt Solar panel
- 20 Amp internal battery with a 30/35Watt Solar panel

- USB output - 5V at 1Amp
- Combined 12V DC output - 10 Amps
- Short circuit - 10 Amps
- Maximum PV input Voltage - 25V
- PV fully loaded MPPT - 17-18V
- PV Maximum current - 1.4 Amps, 2.4Amps



2 Watt LED Light



- 10 to 30V DC operation – polarity protected
- Low cost
- 240 Lumens to comfortably light up a 3 m by 3 m room
- Will draw 2 watts irrespective of voltage
- Built in SMPS to maintain constant light intensity
- 3 meter wire with switch and plugs to match standard
- Durable diffuser enclosure
- Screw or glue mount
- Light weight