

Solar LED Driver Kit (SMPS constant current) McLD1

Solar LED driver kits are designed for OEMs who need to drive power LEDs or cluster of LEDs at a specified drive current with constant current output with varying input dc voltages. A mere constant current for the load is not sufficient as the driver should save the battery power as well. McLD1 not only supplies the constant current but also adjusts the input current to maintain the constant power. This results in efficiency of better than 87%. Dissipative type of constant current driver wastes precious battery power. McLD1 works right from 5.5V to 20V input providing the constant current drive and saving the battery power continuously. It comes in factory setting of 350mA drive current by default. If any other value is needed, it will be done as per requirement.

The kit is fully protected against reverse connection at inputs or short circuit at the output.

Dimensions: 35 mm x 35 mm

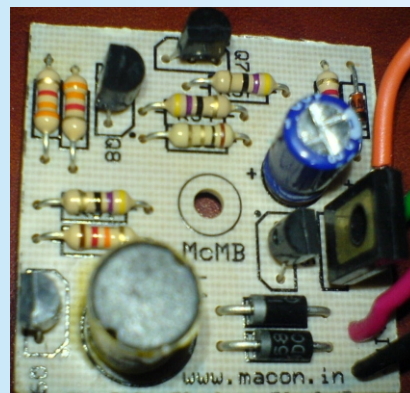
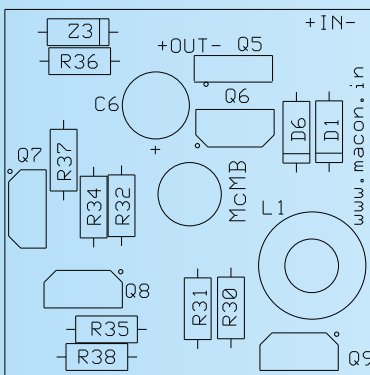
Why McLD1?

McLD1 is designed especially for driving LED/LEDs in highly efficient way. SMPS design results in saving the precious battery power continuously while giving the constant illumination from LED source even when battery voltage is varying in the LVD and HVD limits.

For a standard 12V system, 3 Power LEDs of 1W can be connected in series at the output. It will drive the load with constant current of 350mA when battery voltage is between 11 and 15 V. The battery drain is automatically adjusted to have a constant power drain on it. The more the battery voltage, the less the drain on it. This results in constant illumination under the entire operating voltage of battery while saving the power drain on battery. A simple constant current driver, though gives constant illumination from light source, is dissipative in nature wasting the power of battery.

The efficiency of McLD1 is better than 87% and hence there is no heating effect either.

The driver can be used even for cluster of standard 5mm LEDs or SMD LEDs arranged in suitable series and parallel combination. The drive current can be set as per specific requirement before dispatch.



Solar Mobile Charger (SMPS controlled) McMB

Solar mobile charging kit, McMB is designed taking into account the safety and compatibility of all types of cell phones. The kit should be used in conjunction with any of our charge controllers as one of the loads. The charging current and output voltage are fixed at 440mA and 5.6V respectively. It can accept variable input right from 6V to 15V and works in SMPS mode to save on battery power. Output is fully short circuit protected.

The kit can be used directly from any dc source as well in the specified input range. The variations in the input voltage have no effect on charging.

If you are using McH1 charge controller, provision of adding on this kit is made on McH1. McMB is also available with compatible relimate cable for such an use.

Dimensions: 35mm x 35mm