



TotalControl TC-80

Solar Charge/Load Controller

Solar Panel - Max. 80W

Load Control - Max. 7A

TotalControl TC-80 is designed to work simultaneously as a charge/load controller in 12V solar energy systems. It assures maximum useful life to the battery, providing ideal charge/discharge conditions. It controls charging/flotation and also disconnects the load when the battery voltage drops to a minimum safety level, avoiding total discharge that would shorten battery life.

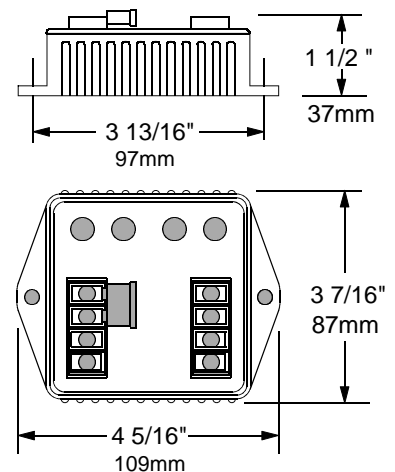
Features:

- Designed for lead-acid and lead-calcium 12V batteries.
- Controls charge/flotation (solar panel up to 80W).
- Controls output (up to 7A), turning it off when battery voltage drops to 11.3~11.6V and resetting it when, during recharging, that voltage reaches 12.6~12.8V.

This system is known by LVD (Low Voltage Disconnection).

- External access 10 A fuse, protecting against short-circuit and reverse polarity connection to the battery.
- Four LED (see drawing below) indicating, as follows:
 - LED #1: Reverse polarity connection to the battery.
 - LED #2: **Ready-to-use output (goes off when LVD occurs).**
 - LED #3: Reverse polarity connection to the solar panel.
 - LED #4: **Charging condition: Lit, battery being charged; blinking, flotation regimen (total charge being maintained).**

Dimensions:



Installation:

- Solar panel must be covered during installation, to avoid electricity being generated.
- Install TotalControl close to the battery (max. 10 ft / 3m).
- Connect solar panel to the TotalControl
- Watch correct polarity: use red cables for positive (+) and black for negative (-).
- Connect load
- Connect battery

Connections:

Wire Gauge to be Used (AWG)				
12	10	8	6	4
10	15	25	35	60
Distance (ft)				

