

# Solar Charger & Controller

(SC12 CHG 10A)



## Description

Solar Voltaic, design and manufacture their own charger/controller units. Incorporated in its total function, the controller has a built in, light sensor, control circuit, for use with PV light systems, switching on automatically when surrounding darkness is sensed. This does NOT use a light sensitive resistor but uses the panels themselves to determine the outside light level.

The Solar Voltaic charger/controller has a logic control, to know when and how much to charge the battery, changing the charge voltage in relation to the temperature of the battery.

These chargers are also 100% efficient by using a by-pass system to direct 100% of the power directly into the battery, whilst merely monitoring the progress.

Another feature is the prevention, of "over charge" and also "deep discharge", preventing damaging battery exhaustion.

## Electrical Parameters

### Input voltage (PV panel)

- 0 - 30 VDC

### Input voltage (battery)

- 12 V battery

### Output voltage

- DC 11.5 to 14.5 volts

### Maximum charging current

- 10 A max (Slave up to 1,000 amps)

### Maximum load current

- 10 A max (Slave up to 1,000 amps)

### Charging characteristics

- 100% charging initially, (Bypass Mode) then float charge

### Condition indications

- LED's and voltmeter

### Controls

- Power "ON" switch, test switch, panel trip reset, battery trip reset. Diode by-pass switch.

### Protection

- Battery "REVERSE", batt "LOW", batt "HIGH", panel circuit breaker, battery circuit breaker.

### Mounting

- Control panel or wall mounting.

### Inputs

- Panel IN, Panel sense IN, Battery IN, Load OUT, Slave HIGH OUT, Slave LOW OUT.



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