# Solar Panel Charging Controller with Timer
## SLR-CONTROLLER-00x

**12V/24V DC Charging Control for Solar Panel Modules 5W up to 100W**

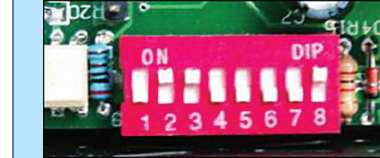*Auto Detect — 5A & 15A — Solid State — Charges While LEDs in Use — Hi/Lo Battery Protection*

## ■ FEATURES

- **Warranty:** 1 Year

- **Reverse Voltage/Charge Protection:** Does Not Allow the Battery to Drain Back into the Solar Array When the Array Is Not Charging the Battery

- **Overcharge Protection:** Senses When the Battery Is Fully Charged, Keeping It at a Safe Voltage

- **Discharge Prevention:** Turns Off the Load When Battery Voltage Drops Below a Safe Level – Prevents Discharging the Battery to Zero Volts, Possibly Causing a Reverse-Charge Condition Or Damaging the Battery

- **Waterproof:** IP22 Rating

- **Adjustable Light-On Timer**

- 12V/24V **System Auto-Detect**

- **Temperature Compensation**

- **PWM Charging**

- Low Overhead Power Consumption

- Reversed Battery Connection Protection

- **All Solid-State Circuitry:** No Relays to Fail

- **Ambient Light Sensor** (Solar Panel as a Light Sensor) with Adjustable Set Point – Power to Lights May Be Programmed to Turn *ON* at Different Ambient Light Conditions

- **Designed for Gelled Lead-Acid Batteries** – Not Recommended for NiCad Batteries



## ■ SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

| PART NUMBER | SLR-CONTROLLER-00x |
| --- | --- |
| Nominal Voltage | **12VDC / 24VDC** |
| Max. Charge Current | SLR-CONTROLLER-005: 7A (Solar Panels Up to 50W)<br>SLR-CONTROLLER-006: 15A (Solar Panels Up to 100W) |
| Low-Voltage Disconnect | 10.8V / 21.6V |
| Reset | 12 / 24V – Adjustable |
| Overcharge Protection | 14.5 / 29V |
| Restart of Charging | 13.7V |
| Self-Consumption | 2mA / 4mA @12V |
| Lighting Switch | Lights automatically at first darkness |
| Lighting Modes | Constant / Flashing (60 times/min) / Custom Changing |
| Operating Temp. Range | -4°~+167° F / -20°C~+80° C |
| Waterproof | IP22 Rated Ingress Protection |
| Sun Level Adjustments | 0-7 |
| Timer | 0 to 15 Hours |
| Dimensions | 4.33" (W) × 2.32" (D) × 1.3" (H)<br>110mm (W) × 59mm (D) × 33mm (H) |
| Weight | 3.9 oz [110 g] |



Power to lights may be programmed to turn ON at different ambient light conditions. Light sensitivity programming as well as timer adjustment is accomplished by setting the DIP switch positions.



*Any (+) and (-) wires must not be connected together (commoned)*