



## SOLAR CONTROLLER

### FOR SOLAR SYSTEM WITH AUTOMATIC LIGHTING CONTROL AND TIMER FUNCTIONS

The Sunshine Solar & Light Controller 10A - 12V/24V is a high quality and reliable controller designed with a microcontroller for automatic lighting control.

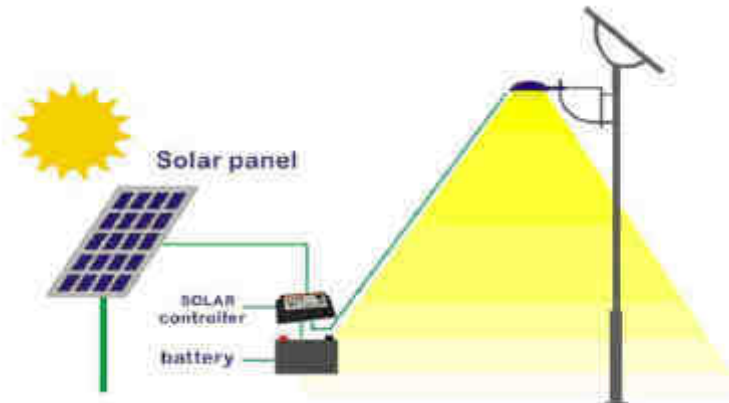
#### THIS TECHNOLOGY PROVIDES:

- Proven reliability
- Precise lighting control
- PWM battery charging

#### OPERATION:

- Digital LED display shows the 16 lighting options.
- Number display, from 0 to 17, DC output.
- Digital LED stops flashing when the desired switch selection has been made.
- 10 minutes delay to make sure it is really dark.

## SOLAR CONTROLLER



#### FEATURES:

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|--|--|
| Microcontroller digital accuracy             | Detects day and night using the PV array |
| Fully automatic operation                    | Suitable for all 12/24 VDC appliance     |
| 17 field adjustable lighting control options | Suitable for Seal lead acid battery      |
| Manual test capability                       | Temperature compensation                 |

#### LIGHTING CONTROL OPTIONS

Number 0	Dusk-to-Dawn, light is on all night
Number 1	Light is turn on after sundown for 1 hour
Number 2	Light is turn on after sundown for 2 hours

Number 3	Light is turn on after sundown for 3 hours
Number 4	Light is turn on after sundown for 4 hours
Number 5	Light is turn on after sundown for 5 hours
Number 6	Light is turn on after sundown for 6 hours
Number 7	Light is turn on after sundown for 7 hours
Number 8	Light is turn on after sundown for 8 hours
Number 9	Light is turn on after sundown for 9 hours
Number 10	Light is turn on after sundown for 10 hours
Number 11	Light is turn on after sundown for 11 hours
Number 12	Light is turn on after sundown for 12 hours
Number 13	Light is turn on after sundown for 13 hours
Number 14	Light is turn on after sundown for 14 hours
Number 15	Light is turn on after sundown for 15 hours
Number 16	Lights remain turned off, ON/OFF mode
Number 17	Test mode, lights on after it detects no light, lights off after it detects light.

## TECHNICAL INFORMATION auto voltage selection 12V/24Volt

<b>Rated solar input</b>		10A
<b>Rated load</b>		10A
<b>25% Current overload</b>	1 min.	5 min.
<b>Regulation voltage</b>	14.4 V	28.8 V
<b>Load disconnect</b>	11.08V	22.15 V
<b>Load reconnect</b>	12.58V	25.10 V
<b>Temp Comp. (mV/□)</b>	-30	-60
<b>Type of Charging:</b>	series PWM , state of charge (SOC) 4 stages Bulk,PWM,Boost and Float	<b>Self-consumption:</b> 6mA maximum
<b>Electronic protections:</b>	short circuit and over current -solar and load Reverse polarity-solar,load & battery Reverse current at night High voltage-load Lightning-solar, load, battery	<b>Dimension:</b> 140 x 90.5mm <b>Terminals:</b> for wire sizes to 2.5mm <sup>2</sup> <b>Weight:</b> 250g <b>Temperature:</b> -35 to +55 <b>Humidity:</b> 100% non-condensing <b>Enclosure:</b> IP22 <b>Case:</b> ABS
<b>Tropicalization:</b>	Circuit board-conformal coated Terminals-corrosion protected	<b>Compliance:</b> CE
<b>LED indications:</b>	Green charging Green-Yellow-Red battery levels Red low voltage warning and disconnect Green-Yellow-Red battery levels All 3 LEDs blink-to show errors	

**WARRANTY: ONE years warranty period.**

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