

## GS-LED-CTRL

### Features

- Corrosion-proof epoxy-encapsulated PCB (IP68)
- Four-stage battery charging (main, float, boost, equalization)
- Temperature compensated
- Automatic system voltage recognition (12V/24V)
- Customized by Greenshine to fit specific needs of clients
- Easy to installed

### Specification

System voltage	12V/24V auto recognition
Max. charge/ load current	5A/ 10A/ 20A (different models)
Deep discharge protection:	
Cut-off voltage	11V – 12V/ 22V – 24V
Reconnect level	12.8V/25.6V
Oversvoltage protection	15.5V/31.0V
Undervoltage protection	10.5V/21V
Max. panel voltage	$U_{BATmin} + 30V$ (if module and battery are connected with correct polarity)
Temperature compensation (Charge voltage)	-25mV/K at 12V -50mV/K at 24V
Ambient temperature	-40°C to +60°C, -40°F to +140°F
Max. altitude	4,000m above sea level
Battery type	Lead acid (GEL, AGM, flooded)
Adjustment range:	
Evening/morning hours	0 – 15h/ 0 – 14h
Night/day detection	2.5V – 10V
Wire cross section	1.5mm <sup>2</sup> / 1.5mm <sup>2</sup> / 2.5mm <sup>2</sup> , 15 (AWG)
Type of protection	IP68 (1.5 m, 72 h)

