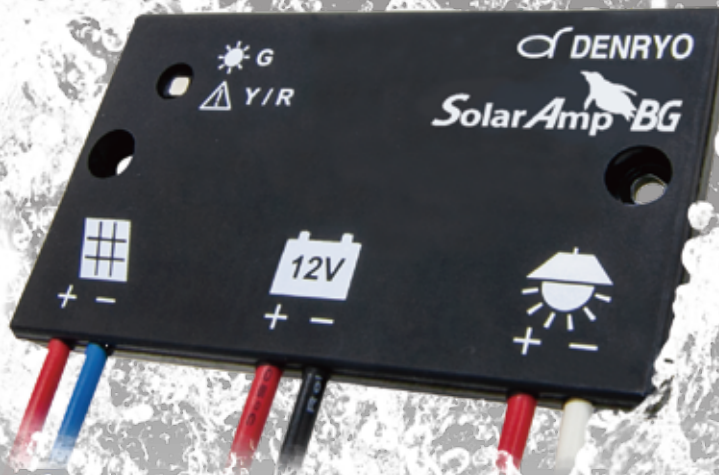


# SolarAmp<sup>BG</sup>

## Waterproof and Dustproof Solar Charge Controller



### High Weather Resistance

SolarAmp BG is fully encapsulated in a special plastic case and meets waterproof and dustproof IP68. The operating temperature range is  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ , which is for use in harsh environments.

### High Toughness

The housing by impact resistant special plastic and fully encapsulated structure prevent mechanical failure from in breaking of foreign body. Outdoor rated, connecting wires prevent terminals from rusting.

### Multicolor LED Indicator

Green, yellow, and red, three-colors LED indicates charging status, warning or error.

### Cutting-edge Technology

SolarAmp BG utilizes the most advanced materials and components in Japan; achieving excellent durability and reliability.

### Slim and compact design

The size is as small as a business card. Thanks to no terminals, the thickness is only 8.5 mm.

### Easy to Install and Use

No installation settings are required. Automatically start after connecting the battery, photovoltaic module and DC load.

### Low Self-Consumption

The low self-consumption current brings long-term stabilization and increases system performance.

### Made in Japan

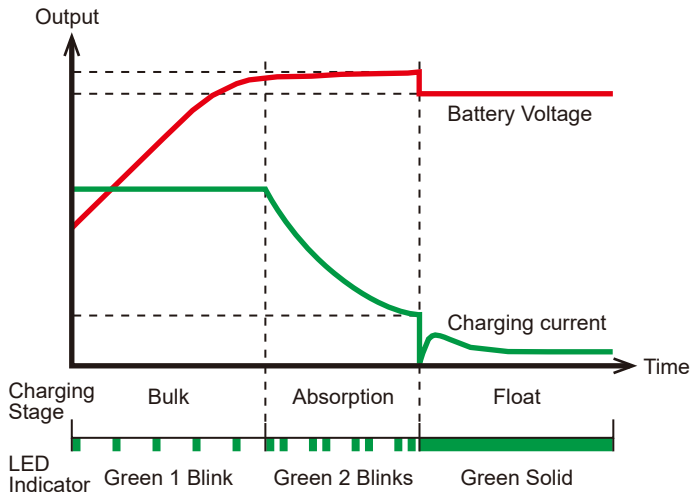
Both software and hardware are designed and manufactured in Japan.

## Adequate Protection Circuit

- High / Low Voltage Protection
- Over Discharge Protection
- High Temperature Protection
- Reverse Polarity Protection
- Over Load Protection
- Short Circuit Protection
- Surge Protection

## 3-Stage Charge

SolarAmp BG detects battery voltage and runs 3-stage charging of bulk, absorption, and float charge automatically. The charging stage can be confirmed from the LED.



## Over Discharged Battery Recovery

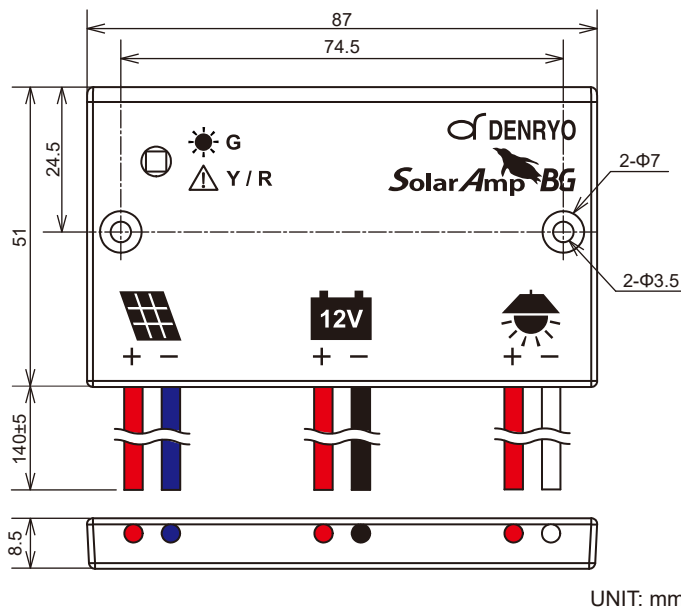
SolarAmp BG has the battery recovery function. This is convenient for the system in areas where systems are difficult to maintain on a regular basis.

## Applications

SolarAmp BG is widely used in stand-alone PV systems such as solar home system in remote area, solar street light and measuring system.



## Dimensions



## Specification

Model No.	SA-BGA10
System Voltage	12Vdc
Max. Input Voltage	25Vdc
Min. Input Battery Voltage	6Vdc
Max. Input Current	10A
Max. Load Current	10A
Self-consumption Current	2mA (Typical)
Charging Algorithm	3-stage (Bulk, Absorption, Float)
Charging Voltage	14.4Vdc
Float Charging Voltage	13.7Vdc
High Voltage Protection	18Vdc
Over Discharge Protection	Warning 11.8Vdc, Error 11.5Vdc, Recovery 12.5Vdc
High Temperature Protection	Warning 60°C, Error 80°C, Recovery 60°C
Battery Type	Lead Acid Battery
Wire Size	#16AWG, 1.25sq
Grounding	Positive Ground
Temperature Coefficient	-30mV/°C
Operation & Storage Temperature	-40°C ~ +70°C
Humidity	100%RH
Dimensions (W x H x D)	87×51×8.5mm
Weight	65g

◆Specifications and appearance are subject to change without prior notice.

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