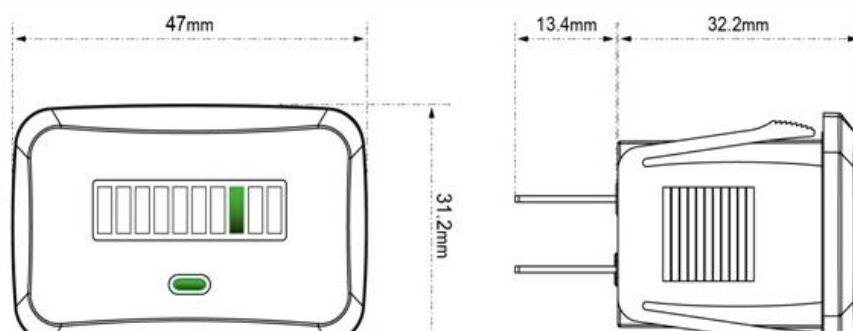# Battery indicator

PRODUCTS DESCRIPTION

proud to present the new SL-BI018 LED battery indicator. It suits for DC 12V/24V、36V、48V battery. It has a powerful battery indicator system and other unique function design.

Battery Indicator System Including: Automatically Recognition Function, Delay Display Function, Recognition false charging signals Function, three voltages select-able, three color LED display, ten segment LED indicate display, etc.

Unique Design Including: easy installation, waterproof Rate IP65, low-power consumption, etc.
In addition, the products have got CE and ROHS certification.It has a patent both in China.

SPECIFICATIONS

Product Model	SL-BI018
Product Size	47mm×31.2mm×45.2mm
Display Screen	LED
Operating voltage	DC 12/24V,36V,48V
Working temperature	-20℃ ~ 80℃
Voltage Accuracy	±0.6V / ±0.12V
Charging delay time	200S
Delay time of every bar	155S
Packing Size	60mm*38mm*50mm
N.W.	46.5g
Waterproof Rate	IP65
Housing Material	ABS
Package	white box

LED battery indicator
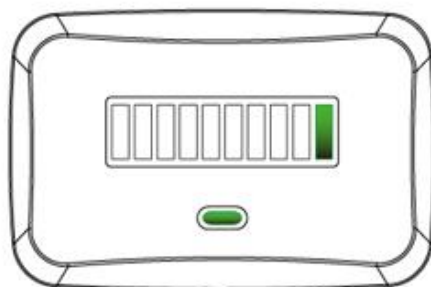
Battery Indicator System

3 voltages selectable

Suit for **12/24V 36V 48V** battery.
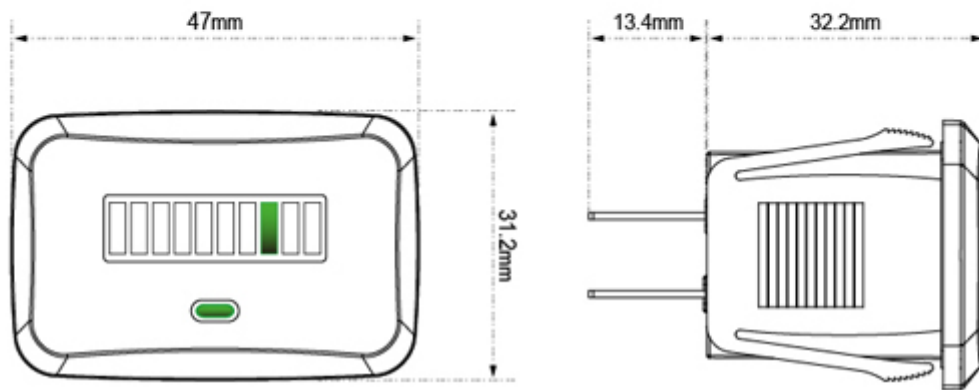Voltage can be selected one by buyer before purchasing.

12v/24v | **36v** | **48v**

Custom voltage is available, please contact our service center.

Dimensional Drawing

white box packing, More safe transportation.
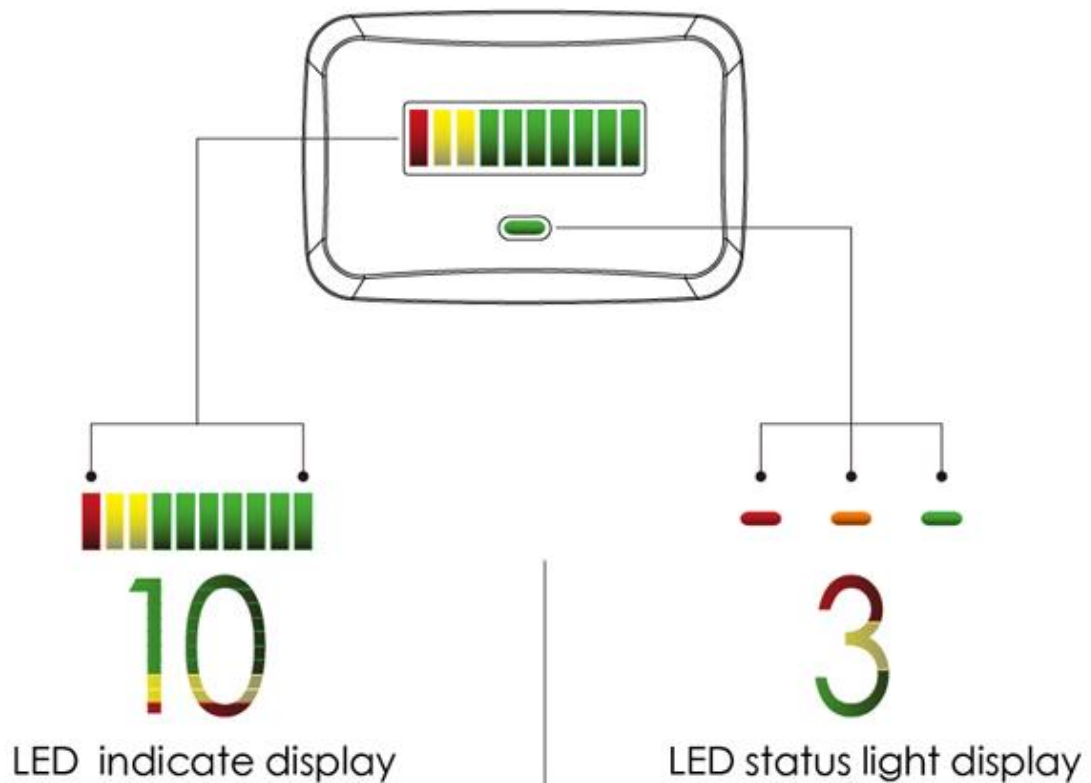
47mm

13.4mm 32.2mm

31.2mm

LED Indicator Light Display Area

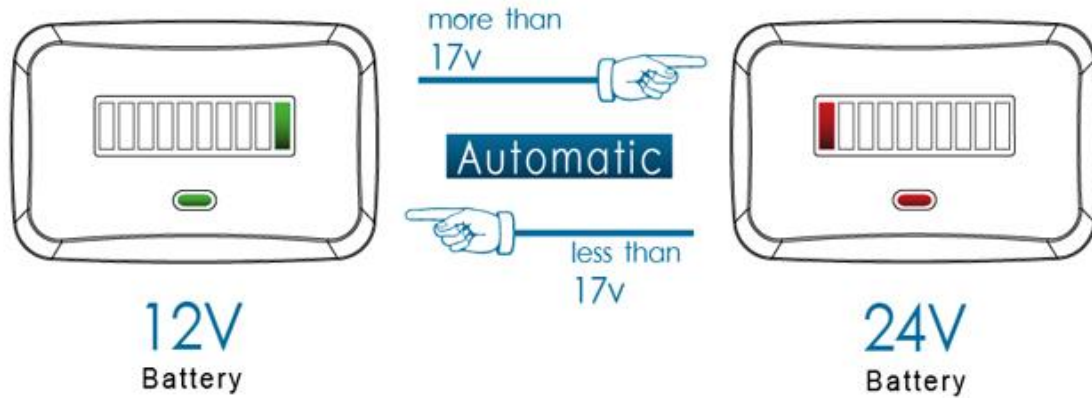## LED status display method

LED Red staus, the battery voltage is too high or too low.
LED Orange status, the battery voltage is low, please charging in time.
LED Green Status, the battery voltage is enough.

10

LED indicate display

3

LED status light display

Automatically Recognition Function

When connected to 12/24V battery, it will distinguish the voltage automatically.

more than 17v

Automatic

less than 17v

12V Battery

24V Battery

Calculation of battery parameters

E: Battery empty value

F: Battery full value

C: Charging voltage value

N: Batteries number

Bar	1	2	3	4	5	6	7	8	9	10	Charging value
Calculation method	$<E*N$	$N((F-E)/9+E)$	$N(2*(F-E)/9+E)$	$N(3*(F-E)/9+E)$	$N(4*(F-E)/9+E)$	$N(5*(F-E)/9+E)$	$N(6*(F-E)/9+E)$	$N(7*(F-E)/9+E)$	$F*N$	$>F*N$	$C*N$
A type12V	<10.38	10.59	10.79	11.00	11.21	11.41	11.62	11.83	12.24	>12.24	13.92

For example: A type 12V bar 3rd: $6*(2*(2.04-1.73)/9+1.73)=10.79$

Specifications

	Operating voltage	DC 12/24V,36V,48V	Packing Size
Product Name	LED battery indicator	Working temperature	-20℃ ~ 80℃
Item Number	RL-BI018	Voltage Accuracy	±0.5%
Product Size	47mm×31.2mm×45.2mm	Charging delay time	200S
Display Screen	LED	Delay time of every bar	155S

Operating voltage	DC 12/24V,36V,48V
Working temperature	-20℃ ~ 80℃
Voltage Accuracy	±0.5%
Charging delay time	200S
Delay time of every bar	155S

Packing Size	60mm*38mm*50mm
Waterproof Rate	IP65
N.W.	46.5g
Housing Material	ABS
Package	White box