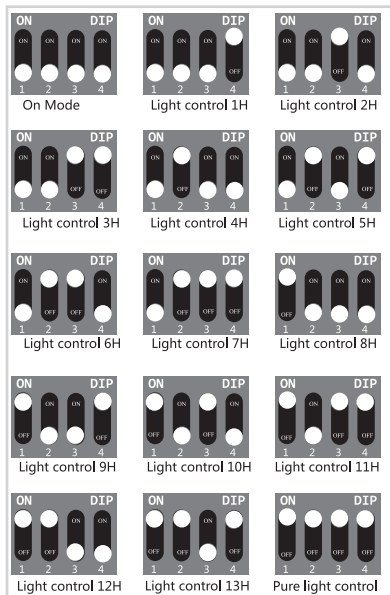


## ● Discharge Mode ( Gray is the switching direction )



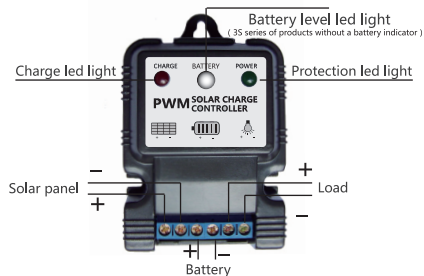
## ● Install & Method of Using

### 1.Wiring Sequence

The preparation of the conducting wire: calculate the length of the wire, and then figure out the installation place. Before connecting the battery firstly, please pay attention to the anode and the cathode to avoid inverse connection. If reversed, the controller indicator indicates an abnormality and may damage the internal components of the controller. If correctly connected, POWER indicator will light.

### 2.LED Lights Display Instruction

LED	STATE	FUNCTION
CHARGE	OFF	Didn't answer the solar panels or night
	LIGHE ON	Battery charging status
BATTERY	GREEN LIGHT ON	Battery power is normal
	RED LIGHT ON	Battery power is low
	BLINKING RED LAMP	Battery power shortage
POWER	OFF	The output protection or relating to state where the ou
	LIGHE ON	The controller output is normal



## ● Technology Index



Battery voltage	Lead acid, colloid	Lithium battery	Lithium iron phosphate battery
	6V/12V/24V	3.7V/7.4V/11.1V	6.4V/12.8V
Output current	3A/5A/10A		
Charging Mode	PWM		
Solar open circuit voltage	3S< 30V; 5S<50V		
Overload and short circuit protection	> 1.25 times rated current 30 seconds protection; > 1.5 times rated current 5 seconds protection; > 2 times rated current immediate protection		
Discharge voltage	Equal to the battery voltage		
Overcharge protection voltage	7.2V/14.5V/29.0V	4.2V/8.4V/12.6V	7.2V/14.4V
Overcharge restores the voltage	7.1V/14.1V/28.2V	4.1V/8.2V/12.3V	7.0V/14.1V
Equalized charging protection voltage	7.1V/14.2V/28.4V	4.1V/8.2V/12.3V	7.0V/14.1V
Floating charge protection voltage	6.9V/13.8V/27.6V	4.0V/8.0V/12.0V	6.9V/13.8V
Overdischarge protection voltage	5.2V/10.4V/20.8V	3.0V/6.0V/9.0V	5.0V/10.0V
Overdischarge restores voltage	6.0V/12.0V/24.0V	3.2V/6.4V/9.6V	6.0V/12.0V
Light control switching voltage	<6V system 1.5V; 12V system 3.0V; 6.0 V to 24 V system		
Light control off voltage	<6V system 3.0V; 12V system 7.0V; 14.0 V to 24 V system		
No-load loss	<10ma		
Working temperature	- 20 ~ + 70°C		
Wire diameter and length	AWG22-14/2mm <sup>2</sup>		
Protection grade	IP30		
Net weight	0.05Kg		
Dimensions	53.4*68.6*22mm		