

### **HP Series Solar Smart Charge Controller**





















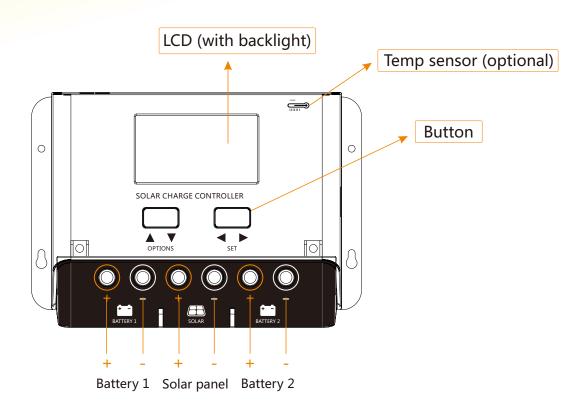


#### **Features**

- 1. Automatically identify system voltage.
- 2. Charging procedures for sealed, colloidal and vented lead acid battery and lithium battery are optional.
- 3. Improved three-stage PWM charging algorithm enables an equalizing charge for the battery regularly or when it is over discharged, effectively preventing battery disequilibrium and vulcanization, and thereby improving battery life (except colloidal, lithium battery).
- 4. Temperature compensation automatically adjusts charging parameters (except lithium battery which requires an external temperature sensor).
- 5. Dual battery charge controller is ideal for RV, caravan, ship and other occasions.
- 6. Two battery simultaneous charging technology.
- 7. Rich charging modes allow users to easily set the battery charging priority.
- 8. Provide overcharge, over-discharge, over-temperature protection and reverse polarity protection.
- 9. Provide rich parameters settings power-down saving function, without the need for repetitive setting.
- 10. Graphic dot matrix LCD and 2-button man-machine interface.
- 11. User-friendly dynamic interface for convenient and intuitive operations.
- 12. Industrial level design meets the requirements of various harsh environments.
- 13. Backlight display; when a button is pressed, the backlight is turned on, and it will be turned off after a period of time.
- 14. TVS lightning protection.



## **Panel Diagram**



### **Product Detail**





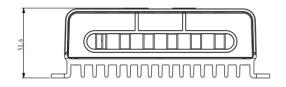


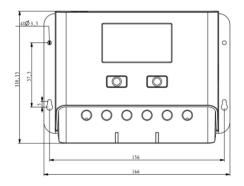
### **Installation Instructions and Precautions**

#### 1. The controller should be installed securely and the dimensions are as follows:

Outline dimensions: 166.0×118.2×52.6(mm)
Installation dimensions: 156×57.5 (mm)

#### 2. Installation hole diameter: 3.5(mm)





#### **State Indicators**

Icons on LCD	Indications	Status	Functions	
*	Identification in the daytime	Steady on	Daytime	
)	Identification in the nighttime	Steady on	Nighttime	
	Solar panel	Steady on	Solar panel indication	
BULK		Steady on	Direct charge	
BOOST	Charging state	Steady on	Boost charge	
FLOAT		Steady on	Floating charge	
EQUATIZE		Steady on	Equalizing charge	
	Battery	Quick flash	Battery overvoltage	
	- battery	Slow flash	Battery over-discharge	
	Battery SOC	4 bars	100%	
		3 bars	75%	
		2 bars	50%	
		1 bars	25%	
		0 bars	0%	



# **Parameter Details**

Model		Remarks			
Rated current					
Custom voltage	12V	Defaulted			
System voltage		is Automatic Identification			
Rate power					
'		The higher the			
Zero load loss	<	system voltage, the smaller the no-load loss.			
Solar input voltage					
Maximum allowable voltage of the battery					
Dattametera					
Battery type	FLD	SLD	GEL	LI	Default: SLD
Over voltage protection					
Equalizing charge voltage	14.8	14.6	-	-	×1/12V; ×2/24V;
Boost charge voltage	14.6	14.4	14.2	14.4	
Floating voltage	13.8	13.8	13.8	-	
Charge return voltage					
Over discharge return voltage	1				
Over discharge voltage	1				
Equalizing charge interval	30 c	days	-	-	
Equalizing charge time	1H		-	-	
Boost charge time	2Н -				
Temperature compensation	-				
Operating temperature					
Over-temperature protection	When the turn off ch below 55°				
IP rating					
Weight					
Protections	Solar panel reverse con protection, controller o				
Dimensions					