

PWM solar charge controller 55V input; 12V/24V,60A

























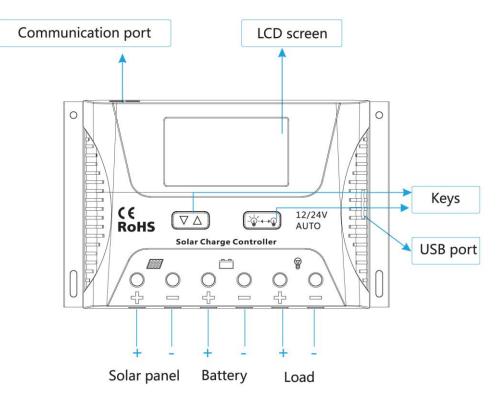


Product Features

- 1. Except HP4840 /30, 12V/ 24 V system voltages are automatically recognized.
- 2. Charging program options for sealed, GEL and flooded lead-acid batteries and lithium batteries are available.
- 3. An upgraded 3-stage PWM charging algorithm is adopted. Application of an equalizing charge to the battery periodically orwhen over discharged, can effectively prevent the battery from non-equalization and sulfuration, thus extending the battery's service life (with the exception of GEL and lithium batteries).
- 4. With temperature compensation employed, charging parameters can be automatically adjusted (with the exception of lithiumbatteries).
- 5. A wide range of load working modes facilitate the product's application to different types of street lights and monitoring devices.
- 6. The product provides overcharge, over-discharge, overload protection, as well as short-circuit and reverse-connection protection.
- 7. By virtue of an advanced load starting method, large-capacitance loads can be started smoothly.
- 8. A range of parameter settings and power-down saving functions are available, thus requiring no repeated setting.
- 9. The product provides a dot matrix graphic LCD screen and a human-machine interface with 2 keys.
- 10. The user-friendly design of browser and dynamic interfaces ensures convenient and intuitive operations.
- 11. (An optional communication function) provides a RJ12 data port (output of TTL232 level or bluetooth signals), with the data adopting the standard Mod bus protocol, and can be used together with our upper computer monitoring software.
- 12. Boasting an industrial grade design, the product can function well in various tough conditions.
- 13. TVS lighting protection is adopted.



Panel Structure



Product Detail



State Indicators

LCD Icon	Indicated Object	State	Meaning		
*	Day recognition	Steady on	Day time		
)	Night recognition	Steady on	Night time		
	Solar Panel	Steady on	Solar Panel indication		
BOOST		Steady on	Boots charging		
FLOAT	Charging state	Steady on	Floating charging		
EQUATIZE		Steady on	Equalizing charging		
	Battery	Quick flashing	Battery over voltage		
	Battery	Slow flashing	Battery over-discharge		
		4 dashes	100%		
		3 dashes	75%		
	Battery SOC	2 dashes	50%		
		1 dashes	25%		
		0 dashes	0%		
	Load	Steady on	Load turned on		
		Steady on	Load turned off		
		Quick flashing	Overload or short-circuit protection		

Parameter Details

Model 2430/		2440 2450/2460		483	4830/4840		Remarks		
Rated current 30A		/40A 50A/60A		30A/40A					
System voltage Auto		omatic recognition of 12V/24V		4	48V				
		<13mA/12V; <15mA/24V		<20mA					
Max. Solar energy		<55V		<110V					
input voltage		<33 V		<110V					
Max. voltage at the		<34V		<68V					
battery end				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
Parameters									
Battery type		Flooded FL		GEL G	iEL I	Lithium LI	Default SLD		
Overvoltage protection		16.0V							
Equalizing charging voltage		14.8V 14.6V	14.6V	-		-			
	Boost charging voltage		14.4V	14.2		14.4V	4V x1/12V;		
Floating charging voltage		13.8V	13.8V	13.8	V	-	- x2/24V;		
Charging recovery voltage		13.2V					x4/48V		
Over-discharger recovery	voltage		12.5V (settable with keys)						
Over-discharger voltage		11.0V (settable with keys)							
Equalizing charging interval		30days		-		-			
Equalizing charging time		1H		-		-			
Boost charging time		2H				-			
Temperature compensation		-3.0mV/ °C/ 2V							
Light control voltage		Light control on 5V, light control off 6V (light control on plus 1V)					x1/12V; x2/24V; x4/48V		
Light control judgment time		10 minutes							
USB Function YES				NO					
Operating temperature	-25°C to +55°C								
IP protection degree IP3		0							
Net. weight 390		3		650g					
		tery reverse con							
protection, reverse charging protection at night									
Charging overload protection, over current protection, short circuit protection							า		
Dimensions 16		.0x103.5x47.0m	4.0mm	189.27x1	m				