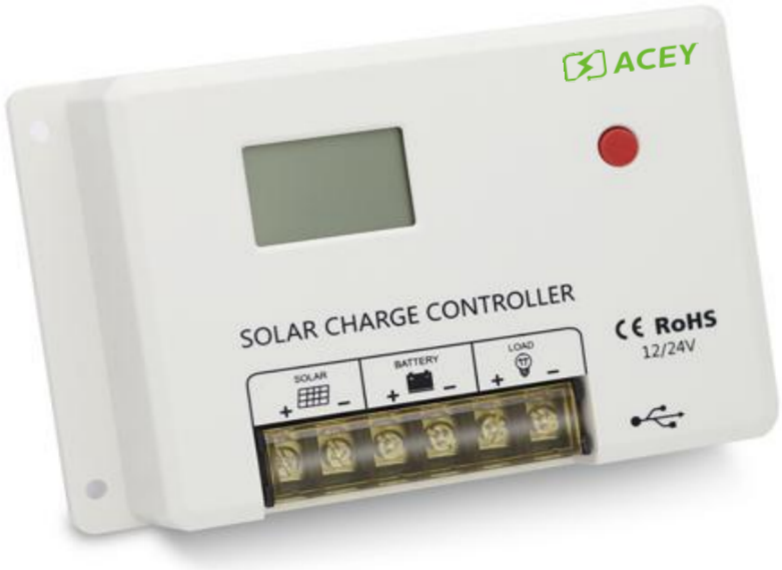
PMW Smart Solar Charge Controller

ACEY-HC2410/2420/2430



PRODUCT CHARACTERISTICS

1.Products adopt 32-bit high-speed main control chip and large-screen LCD,with adjustable charging and discharging parameters.

2.It supports such five battery types as custom, sealed lead-acid (factory default),gel lead-acid,flooded(opencell) lead-acid, lithium battery (default lithium iron phosphate).

3.USB dual-port output is provided, and the maximum current can reach 2A, which supports high-current charging of iPhone, iPad, Android mobile phones, and other devices.

4. Automatic identification of lead-acid battery 12V/24V system voltage.

5. The complete multi-stage PWM charging management can be set to off-load charging for better support of voltage-sensitive loads.

6.Rich load working modes are easy to use in various DC loads.

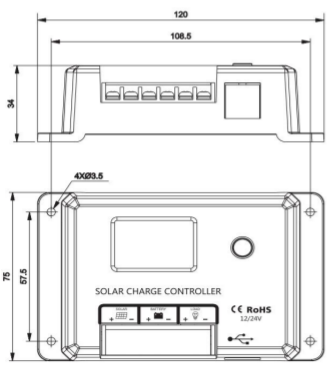
7. Protective functions including built-in reverse polarityprotection, open circuit protection,high temperature protection, and overcurrent/short circuit protection(can be set) are self-recovery type without damage to the controller.

8.Dual MOS anti-backflow circuit is equipped with ultra-low heat generation.

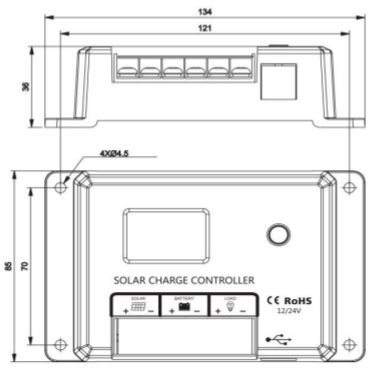
9.Lithium battery activation function is provided.

10. The user-friendly browsing design and dynamic interface are convenient and intuitive for operation.

Installation method



ACEY-HC2410



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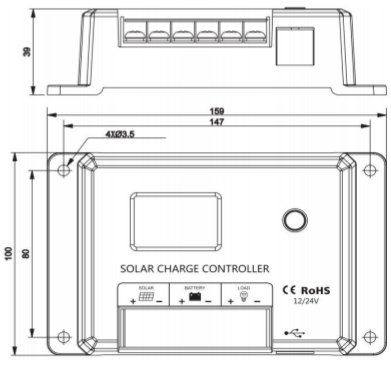

ACEY-HC2430

Technical Parameters

Electric Parameters			PMW Smart Solar Charge Controller ACEY-HC2410/2420/2430
Model	ACEY-HC2410	ACEY-HC2420	ACEY-HC2430
System voltage	12V/24V/U--(automatic identification)		
Maximum allowable voltage at the battery end	<32V		
Rated power	12V/150W 24V/300W	12V/300W 24V/600W	12V/450W 24V/900W
Rated current (Charge&Load)	10A	20A	30A
No-load power consumption	<7mA/12V；<10mA/24V		
Max. PV input voltage	Start the protection and stop charging when the voltage is above 55V. Continue to charge when the voltage is below 50V.		
charging mode	PWM charging is the default mode, and b04/b07 can be set to pulse charging		
USB output	5V/2A		
Operating temperature	-35~+60℃		
Altitude	≤3000m		
IP rating	IP32		
protection funtion	solar panel short-circuit protection; battery panel and battery reverse connection protection Over-temperature protection, load overload protection, and short-circuit protection		
Producr size	120×75×34(mm)	134×85×36(mm)	159×100×39(mm)
Installation size	108.5×57.5(mm)	121×70(mm)	147×80(mm)
Weight	130g	180g	290g

Charge and Discharge Parameters					
Battery type	b01(SLD) ×2/24V	b02(GEL) ×2/24V	b03(FLD) ×2/24V	b04 (Ternary lithium) ×2/24V	b07 (Lithium iron phosphate) ×2/24V
Over- Voltage protection	16V	16V	16V	16V	16.4V
Equalizing charge voltage	14.6V	_	14.8V	_	_
Boost charging voltage	14.4V	14.2V	14.6V	(12.5V)	(14.4V)
Float charge voltage	13.8V	13.8V	13.8V	12.5V	14.4V
high voltabe recovery HVR	15V	15V	15V	15V	15V
Charging reconnect voltage	13.2V	13.2V	13.2V	12V	13.2V
Over discharge recovery voltage	(12.6V)	(12.6V)	(12.6V)	(10.5V)	(12.6V)
Over discharge voltage	(11.1V)	(11.1V)	(11.1V)	(9.5V)	(11.1V)
Equalizing charge time	2H	_	2H	_	_
Boost charging time	2H				

1. The above voltage corresponds to 12V system only. If a 24V system is used, please*2.
2. b01-b03 will go into equalizing charge when and only when LVD occurs. After equalizing charge, it goes directly into floating charge.
3. The corresponding parameters with "bracket identification" in the parameter table can be modified by pressing the button, but the other parameters cannot be modified.