

MPC2415 Series 15A 12/24V MPPT Solar Charge Controller



Feature

*Support both lead acid(Gel included) and lithium battery both for 12V and 24V system.

*Adopts MPPT charging method, which supports the Voc of solar panel≤75V. *With stop up constant current source for output, which can drive 18 LEDs in

*With step-up constant current source for output, which can drive 18 LEDs in series.

*Multi-crest MPPT tech, adapts to the solar panel which is under shadow or partly damaged.

*4 levels dimming design(including morning lighting).

*IR remote control: for parameter setting, parameter reading and historical data checking.

*Auto identify day/night.

*Very low dormancy loss: 0.06W.

*Protections: IP68, over charge/over discharge protection, reverse connection protection, reverse charging protection, over load/over current protection, short circuit/open circuit protection, over temperature protection, TVS lighting protection.



Faceplate

Product Detail



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Parameters

Parameter Name		Value				Adjustability	Default
Model		SR-MPC2410 SR-MPC2415			Adjustability	value	
Supported battery		Lead acid battery(gel included) and lithium battery			√		
Battery voltage		12V	24V	12V	24V	Lithium battery only	9
Battery voltage range			7V~	-36V		Dutter y only	
Charge current				451			
Limited charge current		10A		15A			
Solar panel power		130W	260W	200W	400W		
Solar input voltage		17V~60V	34V~60V	17V~60V	34V~60V		
Max load power		60W	120W	80W	160W		
LED in series(S)		5~18	10~18	5~18	10~18		
Output voltage range		15V~60V	30V~60V	15V~60V	30V~60V		
Circuit efficiency		≤95%	≤97%	≤95%	≤97%		
No-load loss		≤0.55W/normally operation,≤0.32W/energy saving mode, ≤0.06W/sleep mode					
Voc of solar panel		<75V					
MPPT tracking efficiency		>99%					6
Limited Charge voltage		15.5V ; ×2/24V					
Over voltage protection		17.0V ; ×2/24V					
Equalizing charge voltage	For lithium For lead acid battery	(Equalizing charge voltage + 0.4V); ×2/24V(25°C)					
Equalizing charge time		1 Hour					
Equalizing charge interval		30 Days				6	
Boost charge voltage		7.5V~15.5V ; ×2/24V(25℃)			V	14.4V	
Boost charge time		4 Hour					
Float charge voltage		7.5V~15.5V; ×2/24V(25°C)				3	13.8V
Temperature compansation		-3.0mV/°C/2V				V V	1
Charging prohibited under 0°C		<yes, no=""></yes,>				V	No
Charging method		<0, 1>				Invalid setting	
Over charge voltage		7.5V~15.5V ; ×2/24V				V	14.6V
Over-charge recover voltage		7.5V~15.5V ; ×2/24V			√	13.6V	
ver-discharge recover voltage		7.5V~15.5V ; ×2/24V					12.6V
Over-discharge voltage		7.5V~15.5V ; ×2/24V			V	11.0V	
Output current range		70~4200 mA 70~5600 mA			v v	900mA	
Output current accuracy		±3% or ±30mA			v	and the second second	
Light control voltage				; ×2/24V		V	10V
Light open time delay		1~50min					9,2,8,5
Light close time delay		1min					
Working temperature		-40°C ~ +60°C ;					-
Internal overtemperature protec	tion	70°C ~ 85°Cd	(all a second	A Calendary South A	when over 85°C,		-
Weight		70°C ~ 85°Cdecrease the power step by step, when over 85°C, load or charing will be off. 390g 490g					
Product dimension		THE REPORT OF THE PARTY OF	×24.5(mm)	142×88.3×			
Installation dimension		74×82.3(mm), Φ3.5 102×82.3(mm), Φ3.5					
Protection		1.IP68 degree ; 2. PV and Battery reverse connection ; 4. internal overheat ; 5.PV over voltage, short circuit; 6.charge,discharge over load; 7.Anti converse charge at night ; 8.TVS protection to PV. 9. Load short circuit, open circuit ;10. Battery open circuit					

Remark: 1.The real mini output voltage is higher than currently battery voltage about 1V. 2. The real mini output voltage is limited by mini output current 70mA and mini output voltage.