

HELIOS 核力

Portable MPPT Charge Controller



Green & Solar For Life

100% MPPT charge with no tracking limit.

LCD screen + LED indicators for displaying.

Small size for portable use.

Quick plug design, plug & play.

Suitable for small size solar portable charge systems.

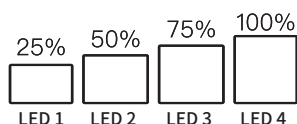
Customizing cables and connectors acceptable.

Multiple battery charge protections.



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Battery SOC Indication



SOC	25%	50%	75%	100%
Bat Volt	11.6V	12.1V	12.6V	13.2V

● Float Flashing

● Steady On

SOC	Charging State	LED1	LED2	LED3	LED4
<25%	Charging	●	●	●	●
	Idle	●	●	●	●
<50%	Charging	●	●	●	●
	Idle	●	●	●	●
<75%	Charging	●	●	●	●
	Idle	●	●	●	●
>75%	Charging	●	●	●	●
	Idle	●	●	●	●

Product Parameters

Controller Parameter	Value	
Model No.	M1210P	M2420P
Battery System Voltage	12V GEL/AGM/Li	GEL/AGM(12V/24V/AUTO); Manual Li 12V/24V
No-load Loss	20mA	
Max Solar Input Voltage	<30Voc	<60Voc
Rated Solar Charge Current	10A	20A
Max Solar Input Power	150W/12V	300W/12V; 600W/24V
Light Control Voltage	5V*n	
Light Control Delay Time	10s	
Operating Temperature	-25°C ~ +55°C	
IP Protection	IP43	
Net Weight	145g	350g
Operating Altitude	≤ 3000 m	
Controller Dimension	96.4*61.6*27mm	150*78*36mm

Battery Voltages	Battery Parameters		
Battery Types	GEL	AGM	LI (LiFePO4)
Equalize Charge Voltage	-	14.6V*n	-
Boost Charge Voltage	14.2V*n	14.4V*n	Default: 14.4V*n
Float Charge Voltage	13.8V*n	13.8V*n	-
Boost Charge Recovery Voltage	13.2V*n	13.2V*n	-
Over-discharge Recovery Voltage	12.6V*n	12.6V*n	Default: 12.6V*n
Over-discharge Voltage	11.1V*n	11.1V*n	Default: 11.1V*n
Auto Temperature Compensation	-3Mv/2V/°C	-3Mv/2V/°C	-

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