

Model: SC-1220MP

The Exodus SC-1220MP Solar Charge Controller is an advanced intelligent multi-stage MPPT solar charge controller featuring our proprietary CC/CV (Constant Current/Constant Voltage) technology designed specifically for LiFePO₄ (lithium iron phosphate) batteries. Designed for 12V systems and handling up to 20A, the controller uses a Buck Conversion Circuit and further uses an MCU to adjust the solar panel to a working point in order to make the solar panels output maximum power. When the working point of the solar panels deviate from the maximum power point, the MCU will adjust the solar panels working point based on an MPPT calculation to make the solar panels provide their maximum power point. Compared with PWM controllers, this MPPT controller can increase the output power of the solar panels by 5% ~ 30%. The output power increases proportionally by various factors, such as the solar panel properties, light intensity, and humidity.



System Voltage:

12V

Allowable Range for Input Voltage (from solar panels):

12V - 70V MPPT (For use with 12V Solar Panels and 12V batteries.)

Output Voltage to Batteries:

LiFePO₄: 14.4V - Max 16V

Output Voltage to Loads:

12V

Rated Charge Current (Current Delivered to Battery):

Up to 20A (CC-CV, Constant current Constant Voltage)

Rated Load Current:

Up to 20A

Batteries Compatible w/ Controller:

Lithium Iron Phosphate (LiFePO₄)

Operating Temperature Range of the Controller:

IP32

Nominal Voltage:

12.8V

Over Charge Voltage:

14.6V

High Recovery Voltage:

13.6V

Saturation Voltage:

12V to 13.6V

Low Discharge Voltage:

10.8V

Low Recover Voltage:

12

****Exodus recommends using controller specifically designed for use with lithium iron phosphate chemistry****

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