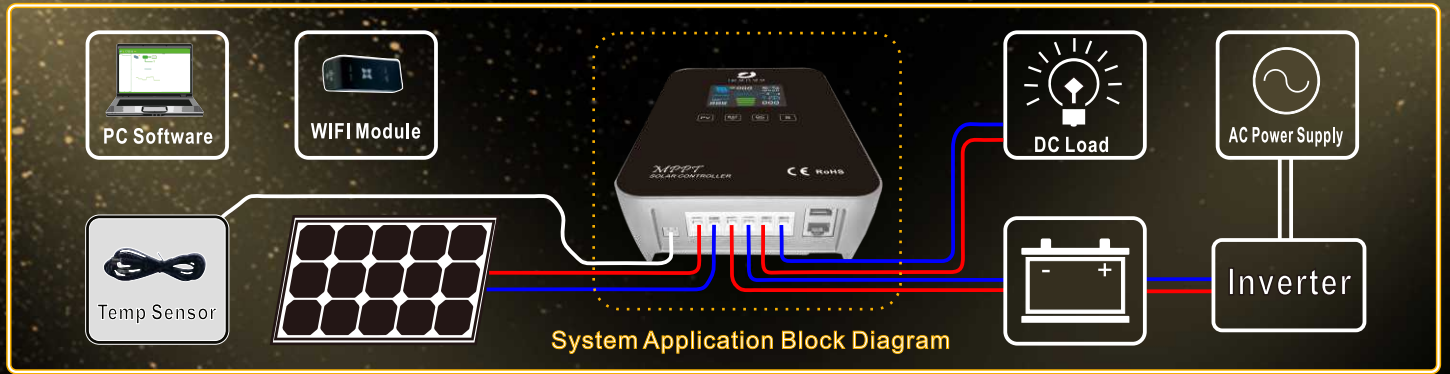




Explorer-M Series

- ☀ EM2460
- ☀ EM2450
- ☀ EM2440
- ☀ EM2430
- ☀ EM2420

- * Suitable For Li-ion Batteries
- * Activation For Li-ion Batteries
- * Natural-cooling & IP43 Protection
- * Suitable For 12V/24V Lead-acid Batteries
- * Support Parallel Connection/Compatible With PC Software Or APP



	Model	EM2420	EM2430	EM2440	EM2450	EM2460	
Product Category	MPPT efficiency	≥ 99.5%					
	Standby consumption	0.5W~1.2W					
	Heat-dissipating method	Natural-Cooling					
	Battery system voltage range	12V system	9VDC~15VDC(Lead acid)				
24V system		18VDC~30VDC(Lead acid)					
Li-ion		8VDC~30VDC(Default), ≤30VDC(Optional activation function)					
Input Characteristics	Max. PV input voltage(Voc)	100VDC(Default), DC150V(Optional)					
	Min. Vmpp Voltage	Battery voltage + 2V					
	Start-up charging voltage	Battery voltage + 3V					
	Low input voltage protection	Battery voltage + 2V					
	Over voltage protection / Recovery	100VDC/95VDC(Default), 150VDC/145VDC(Optional)					
	Rated PV Power	12V system	260W	390W	520W	650W	780W
		24V system	520W	780W	1040W	1300W	1560W
Li-ion		252W~504W	378W~756W	504W~1008W	630W~1260W	756W~1512W	
Charge Characteristics	Activation for lithium battery	Optional					
	Battery types(Default Gel battery)	Sealed(SEL), Gel(GEL), Flooded(FLD), User-defined(USE), Li-ion(Lit)					
	Rated charge current	20A	30A	40A	50A	60A	
	Temperature compensation	-3mV/C/2V (default)					
	Charge method	3-stages: CC(Constant Current), CV(Constant Voltage), CF(Floating Charge)					
	Output voltage stability accuracy	≤ ±0.2V					
LOAD Characteristics	Load voltage	Same as battery voltage.					
	Rated load current	20A		30A			
	Load control mode	On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode					
	Low voltage protection	10.5V(default), 11V(restored), settable					
	Setting method	PC software /APP /Controller					
Display & Communication	Display	High-definition LCD segment code backlight display					
	Communication	Dual RJ45 port / RS485 protocol / PC (via RS485-USB Cable) & APP (via Wi-Fi module) / Centralized monitoring (via parallel connection and RS485-USB cable)					
Other Parameters	Protection	Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.					
	Operating ambient temperature	-20°C ~ +50°C					
	Storage temperature	-40°C ~ +75°C					
	IP(Ingress protection)	IP43					
	Noise	≤10dB					
	Altitude	0~3000m					
	Max. Wiring size	28mm ²					
	Recommended breaker	≥ 40A	≥ 63A	≥ 63A	≥ 100A	≥ 100A	
	N. weight (kg) / G. weight (kg)	1.65 / 1.98		2.35 / 2.78			
Product size/Packing size(mm)	220×148×58.5/289×212×105		245×170×63.5/334×255×123				