



### Product Features

- Advanced MPPT scanning technology & effective temperature management, ensuring efficient, reliable and lasting solar DC charge.
- Solid and attractive, featured with die-casting aluminum casing, tempered glass front and magnetic cover.
- In-built Bluetooth communication module, for APP monitoring and operation in mobile phone.
- Inside glued with polyurethane & silicon mixture, for better device cooling and waterproofing, suitable for installation of solar charge system in RV, yacht, power cabinet and so on.



CE RoHS



APP Operation

### Full-range protection



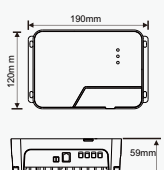
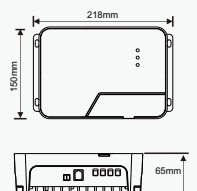



Overcharge Protection



Overheat Protection



Reverse Protection

Product dimension	Accessory	APP
 MS2420N/MS4820N Model  MS2430N/MS2440N/MS4830N/MS4840N Model	 2.0 	 Charge Pro

Controller Parameter	Value					
Model No.	MS2420N	MS2430N	MS2440N	MS4820 N	MS4830N	MS4840N
System Wiring	Negative Grounded					
Battery System Voltage	12V/24V Auto (FLD/GEL/SEL/USE) Manual (Li/USE)			12/24/36/48V Auto (FLD/GEL/SEL/USE) Manual (Li/USE)		
No-load Loss	12mA/12V;10mA/24V			12mA/12V;10mA/24V;8mA/36V;6mA/48V		
Max Solar Input Voltage	<100Voc			<150Voc		
Rated Solar Charge Current	20A	30A	40A	20A	30A	40A
Max Solar Input Power	300W/12V 600W/24V	450W/12V 900W/24V	600W/12V 1200W/24V	300W/12V 600W/24V 900W/36V 1200W/48V	450W/12V 900W/24V 1350W/36V 1800W/48V	600W/12V 1200W/24V 1800W/36V 2400W/48V
Operating Temperature	-35°C ~ +45°C					
IP Protection	IP43					
Net Weight	1.22kg	1.64kg	1.89kg	1.22kg	1.64kg	1.89kg
Communication Port	RS485(RJ12)+Bluetooth ( APP )					
Operating Altitude	≤ 3000 m					
Controller Dimension	190*120*60mm		218*150*65mm		190*120*60mm	
					218*150*65mm	

Battery Voltages	Battery Parameters				
Battery Types	FLD	SEL	GEL (default)	USE (adjustable)	LI (adjustable)
Equalize Charge Voltage	14.8V*n	14.6V*n	-	Default	-
Boost Charge Voltage	14.6V*n	14.4V*n	14.2V*n	Default: GEL	Default: 14.2V*n
Boost Charge Voltage		13.8V*n		Default: GEL	-
Boost Charge Recovery Voltage		13.2V*n		Default: GEL	-
Over-discharge Recovery Voltage		-		-	-
Over-discharge Voltage		-		-	-
Auto Temperature Compensation		-3mV/2V/°C		Default: GEL	-

Accessory List	Package Status
External Temperature Sensor	Yes
Remote LCD Meter	Optional
Bluetooth Module	Yes/Inbuilt
Parallel Charge Use Cable	Optional
User Manual	Yes