



MPPT Solar Charge Controller 192V

Model	MPPT solar charger	MSC-192-50	MSC-192-100	MSC-192-200
Match solar panel parameters	Solar panels power	10560Wp	21120Wp	42240Wp
	Max. Power voltage range $V_{mp}$	DC160V~DC400V		
	Open circuit Voltage $V_{oc}$	< DC450V		
	Over voltage protection $V_{over-pv}$	DC450V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC192V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC232V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20°C~+50°C		
	Storage temperature	-40°C~+75°C		
	IP protection level	IP20 (customizable outdoor IP65)		



MPPT Solar Charge Controller 216V

Model	MPPT solar charger	MSC-216-50	MSC-216-100	MSC-216-200
Match solar panel parameters	Solar panels power	11880Wp	23760Wp	47520Wp
	Max. Power voltage range $V_{mp}$	DC290V~DC650V		
	Open circuit Voltage $V_{oc}$	< DC750V		
	Over voltage protection $V_{over-pv}$	DC750V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC216V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC261V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20℃~+50℃		
	Storage temperature	-40℃~+75℃		
	IP protection level	IP20 (customizable outdoor IP65)		



## MPPT Solar Charge Controller 240V

Model	MPPT solar charger	MSC-240-50	MSC-240-100	MSC-240-200
Match solar panel parameters	Solar panels power	13200Wp	26400Wp	52800Wp
	Max. Power voltage range $V_{mp}$	DC300V~DC650V		
	Open circuit Voltage $V_{oc}$	< DC750V		
	Over voltage protection $V_{over-pv}$	DC750V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC240V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC290V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20℃~+50℃		
	Storage temperature	-40℃~+75℃		
	IP protection level	IP20 (customizable outdoor IP65)		



MPPT Solar Charge Controller 384V

Model	MPPT solar charger	MSC-384-50	MSC-384-100	MSC-384-200
Match solar panel parameters	Solar panels power	21120Wp	42240Wp	84480Wp
	Max. Power voltage range $V_{mp}$	DC500V~DC750V		
	Open circuit Voltage $V_{oc}$	< DC880V		
	Over voltage protection $V_{over-pv}$	DC880V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC384V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC465V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20℃~+50℃		
	Storage temperature	-40℃~+75℃		
	IP protection level	IP20 (customizable outdoor IP65)		



MPPT Solar Charge Controller420V

Model	MPPT solar charger	MSC-420-50	MSC-420-100	MSC-420-200
Match solar panel parameters	Solar panels power	23100Wp	46200Wp	92400Wp
	Max. Power voltage range $V_{mp}$	DC550V~DC750V		
	Open circuit Voltage $V_{oc}$	< DC880V		
	Over voltage protection $V_{over-pv}$	DC880V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC420V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC508V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20℃~+50℃		
	Storage temperature	-40℃~+75℃		
	IP protection level	IP20 (customizable outdoor IP65)		



## MPPT Solar Charge Controller480V

Model	MPPT solar charger	MSC-480-50	MSC-480-100	MSC-480-200
Match solar panel parameters	Solar panels power	26400Wp	52800Wp	105600Wp
	Max. Power voltage range $V_{mp}$	DC600V~DC750V		
	Open circuit Voltage $V_{oc}$	< DC880V		
	Over voltage protection $V_{over-pv}$	DC880V		
	Low voltage protection $V_{low-pv}$	> Battery Low voltage protection (Settable)		
Charging characteristics	Applicable battery type	Sealed lead-acid battery, colloidal lead-acid battery, open lead-acid battery (you can customize parameters to charge other types of batteries)		
	Battery rated voltage	DC480V		
	Start charging $V_{start-pv}$	$V_{pv} > V_{bat}$		
	Floating voltage	DC580V (Settable)		
	Battery Low voltage protection	Settable		
	Rated charging current	50A	100A	200A
	Over current protection	60A	120A	240A
	Charging mode	Three stages: constant current (fast charging), constant pressure, floating charging		
Display \ communication	Display mode	Touch screen		
	Communication protocol	Modbus RTU / Modbus TCP		
	Communication mode	RS485 / USB / Wifi / GPRS / RJ45 / CAN (optional)		
	App cloud monitoring	Support Wifi / GPRS / Ethernet		
Other features	Protection function	Input and output overvoltage and undervoltage protection, anti reverse connection protection, etc		
	MPPT efficiency	≥99.5%		
	Cooling Mode	Fan		
	Working environment temperature	-20℃~+50℃		
	Storage temperature	-40℃~+75℃		
	IP protection level	IP20 (customizable outdoor IP65)		