

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	$\geq 99.5\%$		
	Cooling Mode	Fan		
	Working environment temperature	$-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$		
	Storage temperature	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$		
	IP protection level	IP20 (customizable outdoor IP65)		