



MF series

Solar Charge Controller

MF48100N50



For off-grid application

- Supports dual independent MPPT, electrically isolated
- Up to 500V PV input voltage, ideal for high power

User-Friendly

- Built-in Bluetooth to monitor the device via mobile APP
- Intelligent air-cooled cooling

Safety

- Multiple hardware and software protections
- Stable operation in various environments

All-in-One

- Up to 100A charging current
- Up to 16 units in parallel

Efficient

- Supports voltage line loss compensation
- Multiple charging modes available

Intelligent

- Supports TTL, RS485, CAN (RV-C protocol) communication
- Supports remote control of charging switch

MODEL	MF48100N50	CAN BE SET
PV INPUT		
Num. of MPPT Trackers	2	
Max. Open Circuit Voltage	500Vdc+500Vdc	
MPPT Voltage Range	80V- 450V	
Max. Input Current	20A+20A	
Max. Input Power	3,000W+3,000W	
Start-up Charging Voltage	120V	
Number of Parallel	1~16 units	✓
BATTERY		
Battery Type	USE / FLD / GEL / LI / SLD(default)	✓
Battery Voltage	48Vdc	
Battery Voltage Range	36-64Vdc	
Max. Charging Current	100A	✓
Charging Current Per MPPT	50A	✓
EFFICIENCY		
MPPT Tracking Efficiency	99%	
Max. Charging Conversion Efficiency	96%	
COMMUNICATION		
Standard	Built-in Bluetooth, TTL(connect to WiFi), RS485	
Optional	CAN (RV-Cprotocols)	
Programmable relays	NO, C, NC -current limit: DC: 10A,30VDC/ AC: 10A,250VAC	
GENERAL		
Dimensions	440*340*124mm	
Weight	11kg	
Protection Degree	IP21	
Cooling Method	Intelligent fan	
Warranty	3 Years	
Ambient Temp	-20°C-65°C	
CERTIFICATION		

