

MF Series

Solar power
Charging Controller

MF48100N50

FEATURE

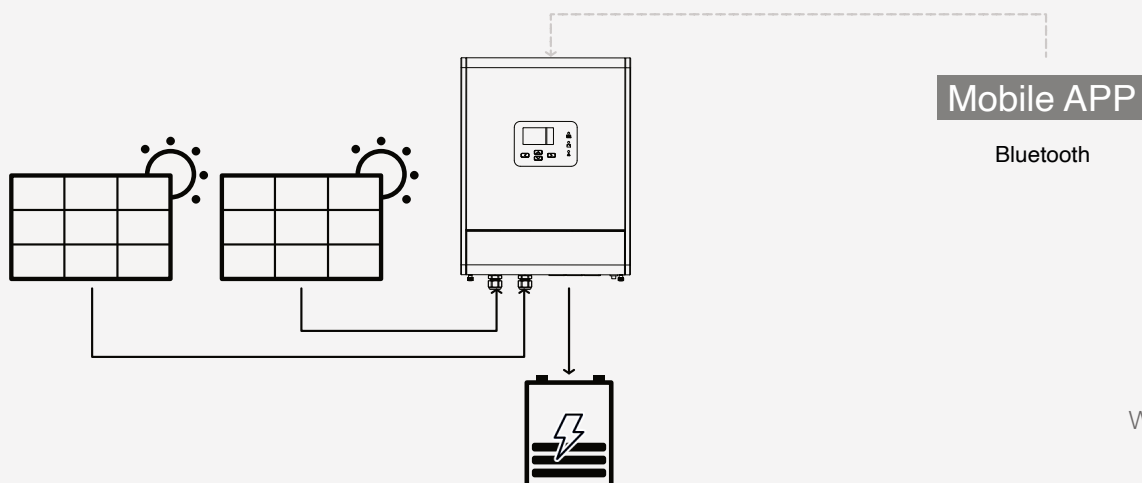
- ☐ Supports various battery types
- ☐ Supports dual independent MPPTs with fully isolated inputs and outputs
- ☐ Air-cooled heat dissipation, built-in temperature detection device
- ☐ Supports 1-16 sets of parallel use
- ☐ Supports charging voltage line loss compensation, which makes battery charging voltage control more accurate

ABOUT SRNE

- ☐ SRNE 15 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL	MF48100N50
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	RoHS, CE-RED, SAA
PROTECTION	

It is equipped with PV over-voltage protection, PV over-current protection, input/output power limit protection, over-temperature protection, busbar over-voltage protection, battery over-voltage/over-discharge protection.



Wiring diagram