



MD series

DC-DC charger with MPPT

MD4830N06



/ For reefer truck

- Can be connected to both PV and alternator
- Can charge the backup battery by PV and Alt at same time

/ User-Friendly

- Easy to install and simple to use
- Natural cooling, absolutely quiet

/ Safety

- 360 degrees of security from hardware to software
- IP65 protection degree

/ All-in-One

- 3 charging mode, be your reliable power steward
- Helps you save space and wire

/ Efficient

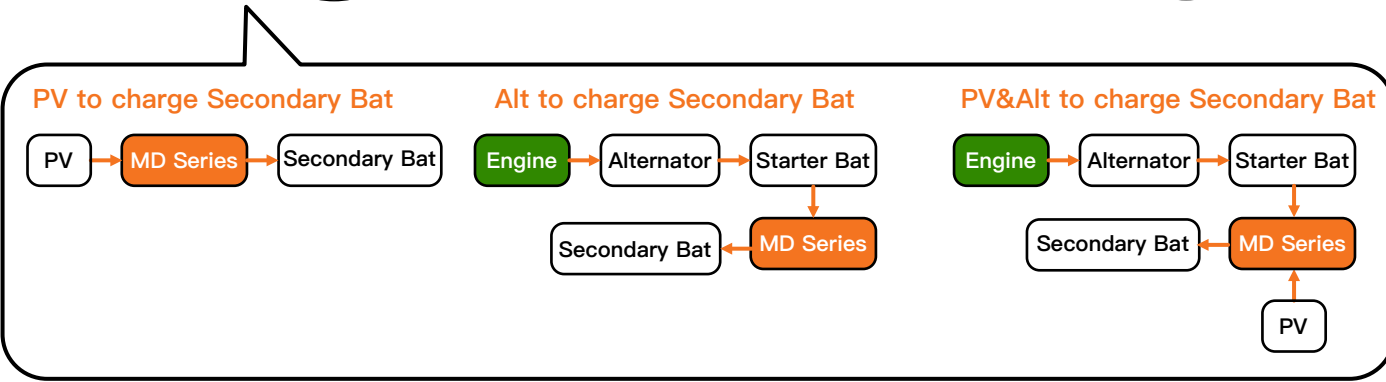
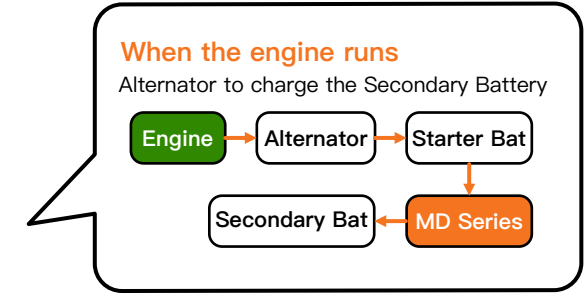
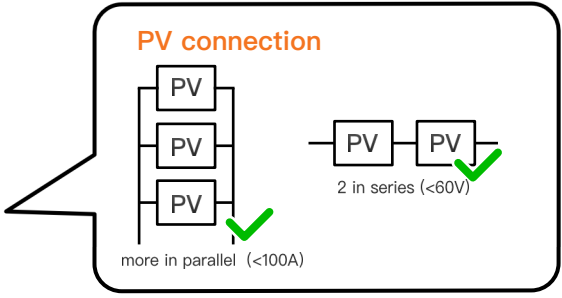
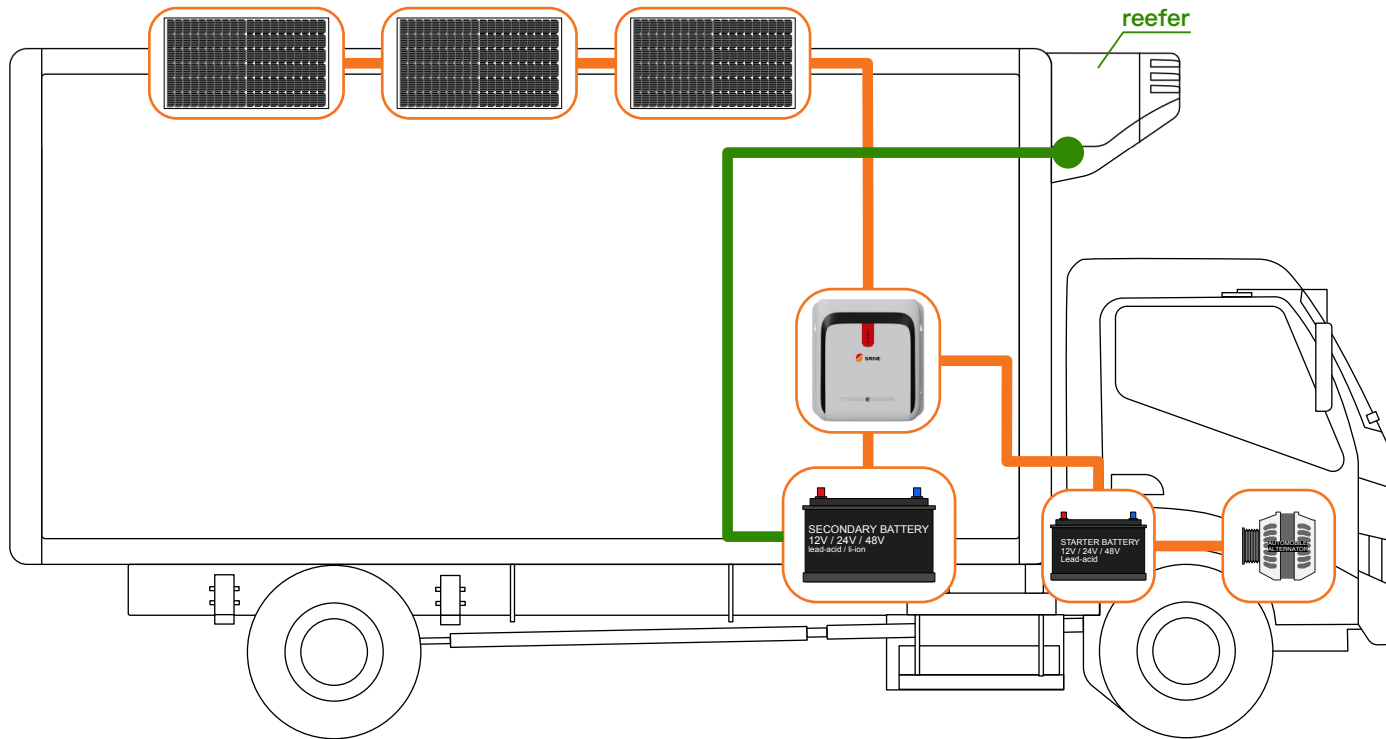
- MPPT with up to 99.9% efficiency
- Support 2 in series/more in parallel connection

/ Intelligent

- Supports TTL communication

MODEL		MD4830N06	CAN BE SET
PV INPUT			
Max.Voltage of Open Circuit		60Vdc	
MPPT Voltage Range		17~42Vdc	
Max.PV Input Current		100A	Y
Max.PV Input Power		400W (12Vbat) / 800W (24Vbat) / 1600W (48Vbat)	Y
LEISURE BATTERY			
Battery Type		Lead-acid / Li-ion / User Defined	Y
Rated Battery Voltage		12/24/48Vdc	
Battery Voltage Range		9-60Vdc	Y
Rated Charging Current		30A	Y
MPPT Charging Mode		Buck,Boost,Buck-Boost	
STARTER BATTERY / ALTERNATOR			
Battery Type		Lead-acid	
Rated Battery Voltage		12/24/48Vdc	
Max.Alterna- tor Input Voltage	Conventional Alternator	13.2-16Vdc / 26.4-32Vdc/ 52.8~64Vdc	
	Euro 6 Standard Alternator	12-16Vdc / 14-32Vdc/ 48~64Vdc	
Alternator Charging Mode		Buck,Boost,Buck-Boost	
EFFICIENCY			
MPPT Tracking Efficiency		>99%	
Max. Charging Conversion Efficiency		98%	
COMMUNICATION			
Embedded Interfaces		TTL	Y
External Modules		Bluetooth (with APP)	Y
GENERAL			
Weight		5.3kg (11.68 lb)	
Dimension		233*262*100mm (9.17*10.31*3.93 in)	
Protection Degree		IP65	
Operating Temperature Range		-35°C~65°C (-31°F~149°F)	
CERTIFICATION			
Safety		IEC62109	
EMS		IEC61000, FCC sDoC	
Rohs		YES	

Specially Designed For Reefer Truck

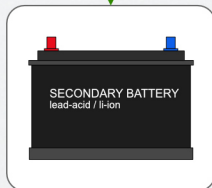
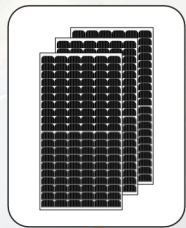


Bluetooth Mobile APP Download



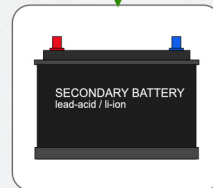
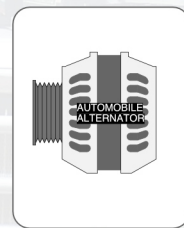
ALL IN ONE

MODE1



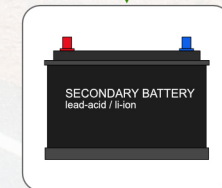
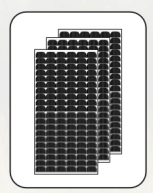
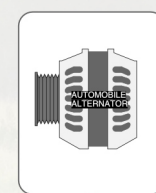
MPPT Charge the Secondary Battery

MODE2



Automobile Alternator Charge the Secondary Battery

MODE3



Automobile Alternator & PV Hybrid Charge the Secondary Battery

Wiring sequence

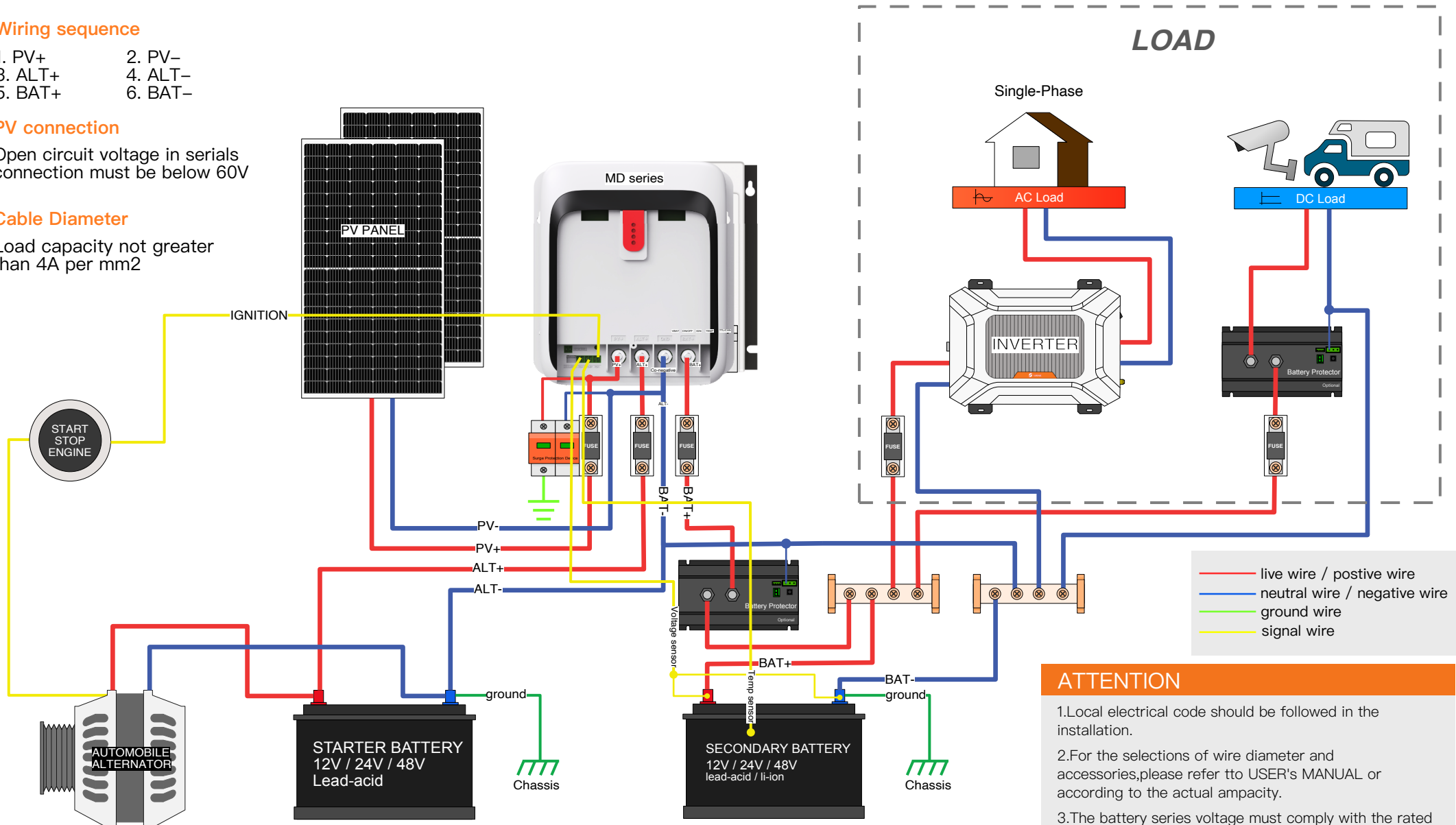
1. PV+
2. PV-
3. ALT+
4. ALT-
5. BAT+
6. BAT-

PV connection

Open circuit voltage in serials connection must be below 60V

Cable Diameter

Load capacity not greater than 4A per mm²



LOAD

Single-Phase



- live wire / positive wire
- neutral wire / negative wire
- ground wire
- signal wire

ATTENTION

1. Local electrical code should be followed in the installation.
2. For the selections of wire diameter and accessories, please refer to USER'S MANUAL or according to the actual ampacity.
3. The battery series voltage must comply with the rated battery voltage of the device. The PV module series open circuit voltage must be below than the Max.Voc of the device.
4. This diagram is for reference only, please decide on the connection method according to the actual situation.