

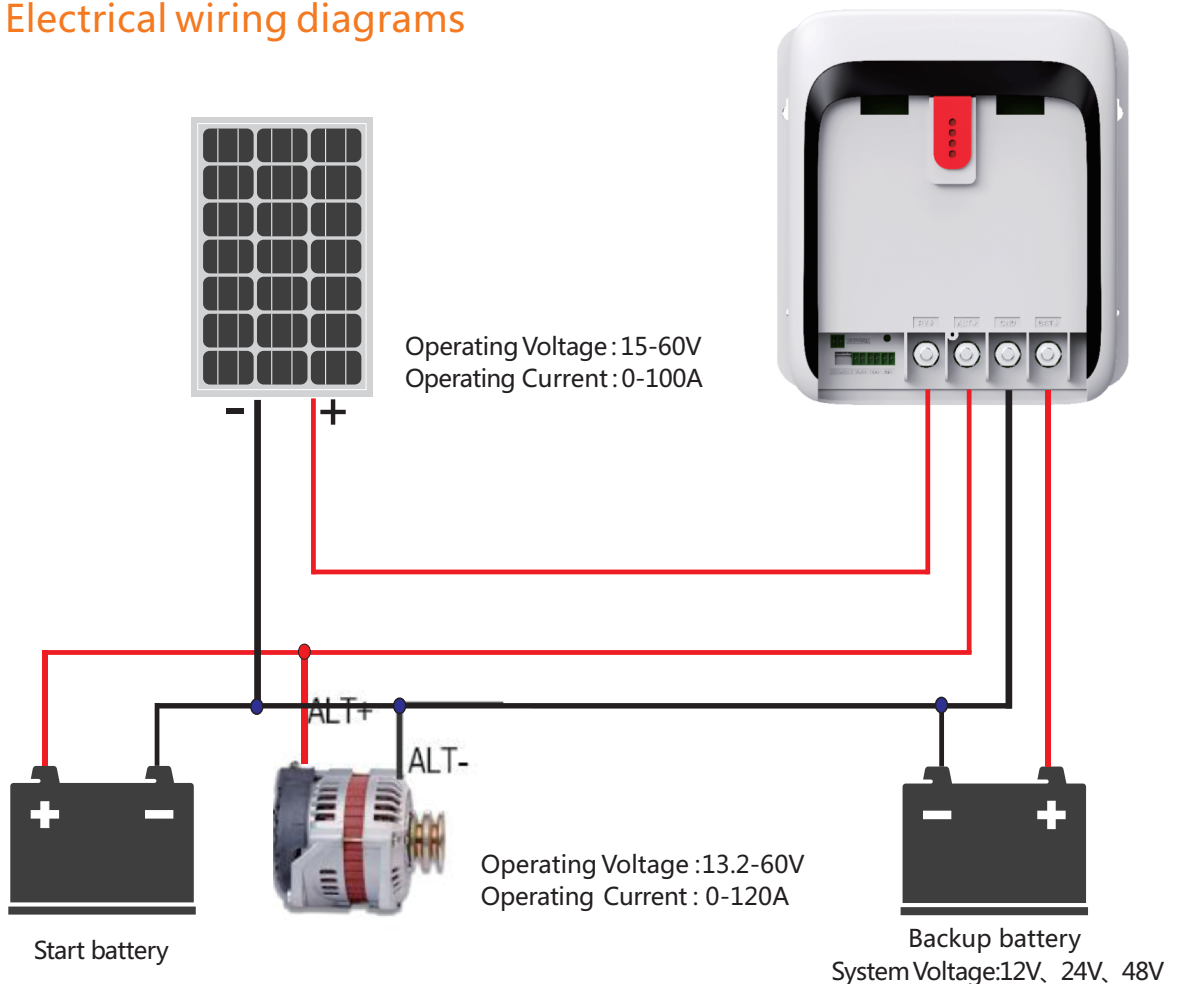
## MPPT Solar & Generator DC Charging Controller MD4830N06



### Main Features

- ◆ Sealed battery, gel battery, vented battery, lithium battery and user-defined battery can all be used as backup battery.
- ◆ Available for intelligent generator and conventional generator, automatic recognition of generator type through ignition signal.
- ◆ The charging working modes divides into PV charges backup battery, generator charges backup battery, PV and generator charge backup battery and PV charges starter battery.
- ◆ Backup battery charging voltage line loss compensation function makes the battery charging voltage control more accurate.
- ◆ Backup battery temperature sampling function and temperature compensation function of lead-acid battery can effectively extend the lifespan of battery.
- ◆ High temperature charging automatic derating function
- ◆ Pouring sealant treatment to ensure reliable and efficient operation in various working environments.

### Electrical wiring diagrams



## Product Specification Parameter

Parameter		Value
Model		MD4830N06
Backup Battery System Voltage		12V/24V/48V
Backup Battery Voltage Range		9~60V DC
Backup Battery Type		Sealed Battery, Gel Battery, Vented Battery, Lithium Iron Phosphate Battery, User-defined Battery
Rated Charging Current		30A
Maximum PV Input Voltage		60V DC
Max. power point voltage range		17~42V
Maximum PV Input Current		100A
Solar Panel Charging Mode		Buck MPPT, Boost MPPT, Buck-Boost MPPT
MPPT Efficiency		> 99%
PV input power is recommended	12V Backup Battery	≤400W
	24V Backup Battery	≤800W
	48V Backup Battery	≤1600W
Generator (Starter Battery) System Voltage		12V/24V/48V
Starter Battery Type		Lead-acid Battery
Maximum Generator Input Voltage		60V DC
Maximum Generator Input Current		120A
12V Generator Voltage Range	Conventional Generator	13.2 ~ 16V DC
	Intelligent (Euro 6 Standard) Generator	12 ~ 16V DC
Generator charging mode		Buck , Boost , Buck-Boost
Generator output power is recommended	12V Backup Battery	> 400W
	24V Backup Battery	> 800W
	48V Backup Battery	> 1600W
PV charges the starter battery	Charging Voltage	13.8V×N
	Charging Current	≤15A
No-load loss		<0.6W
Maximum Charging Conversion Efficiency		98%
Temperature compensation factor		-3mV/°C/2V ( Default value, the value of lead-acid battery can be set );No temperature compensation function for lithium battery
Communication method		Isolator CAN ; TTL
Protection Function		Overcharging Protection, Overcurrent Protection, Overtemperature Protection, Generator Reverse Connection Protection, Solar Panel Reverse Connection Protection, Anti-reverse Charging Protection at night
Operating temperature		- 35°C ~ 65°C
Altitude		≤3000米
Product dimensions		233×262×100mm