



ML series Solar Charge Controller

ML4830N15/ML4860N15



For off-grid application

- Can be connected to both PV, battery and load
- Multiple load operating modes to meet diverse needs

User-Friendly

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

Safety

- Complete charge and discharge protection mechanism
- High quality components for stable operation

All-in-One

- Supports multiple battery types
- Highly integrated, helps you save space and wire

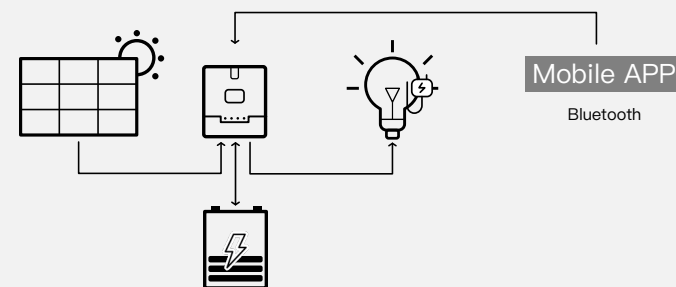
Efficient

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

Intelligent

- Supports RS232, RS485, (RV-C protocols)
- Supports Bluetooth with mobile APP

MODEL	ML4830N15	ML4860N15	Can Be Set
PV INPUT			
Max.Voltage of Open Circuit	145Vdc		
MPPT Voltage Range	(Battery voltage+2V) ~ 120V		
Max.PV Input Power	400W/12V	800W/12V	✓
	800W/24V	1600W/24V	
	1200W/36V	2400W/36V	
	1600W/48V	3200W/48V	
Num.of Parallel	1-10 units		
BATTERY			
Battery Type	Lead-acid / Li-ion / User Defined		✓
Rated Battery Voltage	12/24/36/48Vdc		
Battery Voltage Range	9~70Vdc	9~65Vdc	✓
Rated Charging Current	30A	60A	✓
MPPT Charging Mode	Buck		
LOAD			
Load Type	Resistive load, Capacitive load, Inductive load		
Rated Load Voltage	Equal to battery voltage 12/24/36/48V		
Rated Load Current	20A		
Load Working Mode	Light control, Light control + Time control, Manual control (default), Debugging mode, Normal open		✓
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Charging Conversion Efficiency	≤98%		
ACCESSORIES			
Standard	BTS temperature sensors	BTS temperature sensor, 3 pole communication cable	
Optional	RM-5 display, BT-1 Bluetooth module, USB to RS232 connection cable, GP-2 IoT module, 6 pole communication cable		✓
GENERAL			
Communication	RS232/RS485		✓
Weight	2.3kg (5.07lb)	3.6kg (7.94lb)	
Dimension	226*182*81mm (0.74*0.60*0.27ft)	285*205*93mm (0.94*0.67*0.31ft)	
Protection Degree	IP32		
Operating Temperature Range	-35°C~45°C (-31°F~113°F)		



Wiring diagram