

User's Manual

L60/L80



Introduction

This is Three-time Controller into the evening working time, and interval of rest or pause time, Dawn working time (morning light function), the user can according to their needs, set a different time.

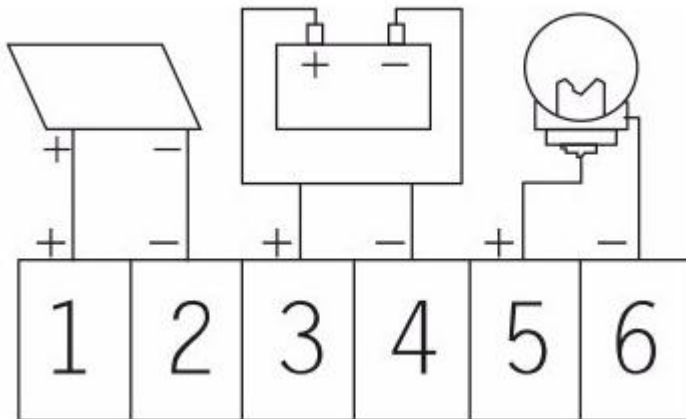
A: Time (evening working) B: time (Pause working) C: time (dawn working)

This is a compatible MPPT charge controller PWM intelligent/efficient/energy saving, it not only has efficient MPPT controller charging function to automatically track the maximum power point, 10%-30% higher than the ordinary controller charging efficiency, also has standby energy saving, more than 30% energy than ordinary controller, the standby power consumption of only 10mA-15mA

Features

- LCD screen display
- Battery reverse discharge protection
- Simple (and more time control) operation
- Battery reverse polarity protection
- PWM charging mode + MPPT
- Battery under voltage protection
- Parameter user can reset
- Overload, short-circuit protection
- A key to open and close the load
- Automatic Temperature compensation function
- A key to restore the factory setting
- USB 5V charge (current 1500mA/1.5A) optional

Installation



1. Ready Qi installation tools and materials, and cable. Please matching suitable cable
2. Ensure that the current density $< 4A/mm^2$ That will help reduce the line pressure drop. check the installation site meets the relevant safety requirements, avoid damp, dusty, flammable, explosive and corrosive gases
3. Install the controller fixed to the vertical plane, see Section V mounting aperture and hole spacing. In order to ensure a good controller cooling conditions, the controller on the bottom of each reserved 10cm space
4. As shown on the right wiring sequence: load, battery, solar Battery plate is connected to the controller to be taken to ensure that the load, battery, The polarity of the solar cell panel and controller
5. Before use: external temperature sensor probe into the left of the controller temperature probe interface probe placed in similar battery temperature. (Line extensive must be build-in devices of the external temperature probe coextensive Otherwise, the controller will control parameters of the temperature compensation of the error
6. Warning: In order to prevent accidents from occurring, install: non-professionals can not be engaged in loading and unloading operations
7. Charging Problem Solution:
 - a. No proper installation of solar panels cable polarity (“+”-”) Removing the polarity, you can re-install the correct
 - b. More than the rated power of solar panels to reduce solar panel power does not exceed the rated power controller discharge Problem Solution
 - c. Removing the load is not properly connected to the load, re-install the correct
 - d. More than the rated load power to reduce load power, the controller does not exceed the rated power
 - e. Instantaneous starting current is too large, the battery capacity is too small, the replacement of high-capacity batteries, button troubleshooting
 - f. Wire Cable polarity loose or too square and increase retightening bold cable
 - g. All keys can troubleshoot faults, press 5 seconds to restore factory settings.



Data sheet

Parameters/Model	MPPT T-10	MPPT T-20	MPPT T-30	MPPT T-40	MPPT L-60	MPPT L-80
Maximum Power Current	12A	20A	30A	40A	60A	80A
Installation Lin(mm ²)	4mm ²	8mm ²	10mm ²	12mm ²	16mm ²	20mm ²
Installaton Line(AWG)	10#(AWG)	8#(AWG)	7#(AWG)	6#(AWG)	4#(AWG)	2#(AWG)
Weight	280g	300g	475g	500g	800g	900g
Peak power of solar cell panel (Max Wp)	130W	260W	380W	500W	800W	1000W
Battery capacity configuration	100AH	200AH	300AH	400AH	600AH	800AH
Dimensions	143*89*46(mm)		187*97*61(mm)		188*128*61(mm)	
Battery float voltage	13.8V(12V system)/27.6V(24V system)					
Battery (under voltage) protection	10.6V(12V system)/21.2V(24V system)					
Battery(under voltage)recovery voltage	12.6V(12V system)/25.2V(24V system)					
System load loss: <=13mA	Loop Buck; <=100mV					
Operation Temperature :-10°C~60°C	Storage Temperature :-30°C~-70°C					
Operation Temperature :<=90%,No condensation	Temperature compensation :-4mV/Cell/°C					
Maximum open circuit voltage of the solar panel	18V~24V(12V system) 36V~48V(24V system)					
Solar Panel maximum open circuit voltage	<=48V					

