



## MPPT SOLAR CHARGE CONTROLLER



Battery type



Protections



USB Output



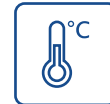
Button mode



LCD  
Color display



Parameters  
adjustable



Temperature  
compensation

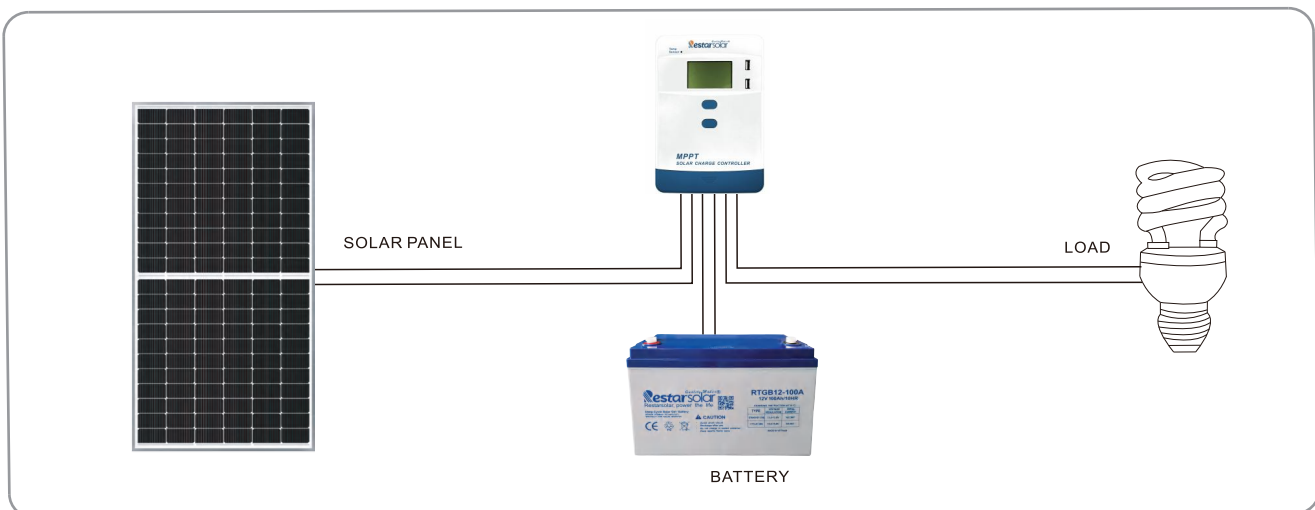


Support Bluetooth  
communication  
(built in optional)

- Backlight Design
- Input current & voltage display
- Output current display
- USB output
- 12V/24V auto. voltage distinguish function
- Over-charge, over-discharge, short-circuit protections, to ensure system safe and prolong battery life.
- With battery temperature compensation, ensure best charge status in different environment.
- Three stage charge mode: strong charge, constant current, Floating charge intelligent control



## INSTALL & UNINSTALL GUIDE:



## Product Specification

Model	RT-MRL10	RT-MRL20	RT-MRL30	RT-MRL4024	RT-MRL6024	
<b>Input</b>						
Rated Charge Current	10A	20A	30A	40A	50A	60A
Maximum PV open circuit voltage	100V (at the lowest temperature), 92V (at a normal temperature of 25°C)					
System voltage	12V / 24V / Auto					
Maximum battery voltage	8V ~ 32V					
PV maximum input power	12V	130W	130W	130W	130W	130W
	24V	260W	260W	260W	260W	260W
<b>Output</b>						
Battery Type	GEL,SLD,FLD, Lithium batteries customization					
Balanced charging voltage	Maintenance of lead-acid batteries for rabbits: 14.6V Colloid: None; Lead-acid flooded battery: 14.8V Duration: 2 hours					
Absorb charging voltage	Maintenance-free lead-acid battery: 14.4 V Colloid: None; Lead-acid battery: 14.6V Duration: 2 hours					
Float charging voltage	Maintenance-free lead-acid battery, gel, lead-acid flooded battery: 13.8V					
Low-voltage recovery voltage	Maintenance-free lead-acid battery, gel, lead-acid flooded battery: 12.6V					
Low-voltage disconnect voltage	Maintenance-free lead-acid battery, gel, lead-acid flooded battery: 10.8V					
Static loss	≤50mA					
High voltage protection	Lead-acid battery 16V					
Light-controlled point voltage	5V/10V/15V/20V					
Temperature compensation coefficient	-4mV/C/2V(25°C)					
Voltage drop in discharge circuit	≤0.2V					
Temperature range of display screen	-20°C~+70°C					
Operating ambient temperature range	-20°C~+55°C					
Storage environment temperature	-30°C ~ +80°C					
Humidity in the working environment	≤90% without condensation phenomenon					
protection grade	IP30					
grounding type	Positive electrode grounding					
Product size	175mm*120mm*47mm	215mm*145mm*75mm		261mm*191mm*84mm		
Installation size	120mm*108mm	133mm*130mm		180mm*214mm		
Installation aperture	φ5mm					
Terminal wire diameter	10mm <sup>2</sup> /7AWG	16mm <sup>2</sup> /5AWG		25mm <sup>2</sup> /3AWG		
Optional Features	Remote communication RS485/RJ45 interface					
Voltage parameters are all 12V (ambient temperature 25°C), 24V system parameters						