

## RSC Series MPPT Solar Charge Controller

### Feature:

- 20A/30A/40A/45A/60A/80A MPPT Solar charge controller
- 12V/24V auto work / 12V/24V/36V/48V auto work
- MPPT efficiency > 99%, Peak conversion efficiency > 98%
- DSP processors architecture ensures high speed and performance
- Multi-stage charging mode
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit



### Introduction:

MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

### LCD Display Information

### Solar System Connection



1. MENU: Enter or exit setting mode.
2. UP: Increase the setting data.
3. DOWN: Decrease the setting data.
4. ENTER: Confirm the selection in setting mode.
8. LCD display

LED indicator		System status	
5. PV	Green	On	PV voltage normal
		Flashing every 1s	PV fault is recovering
		Flashing every 2s	PV fault can't recover
		Off	PV is off
6. BATT	Yellow	On	Battery voltage normal
		Flashing every 1s	Battery fault is recovering
		Flashing every 2s	Battery fault can't recover
		Off	Battery is off
7. FAULT	Red	Flashing	Fault
		Off	Normal

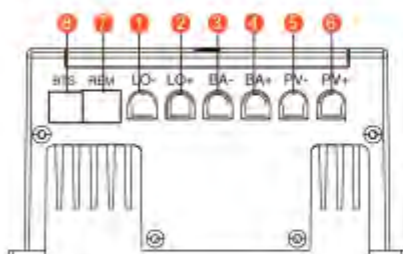
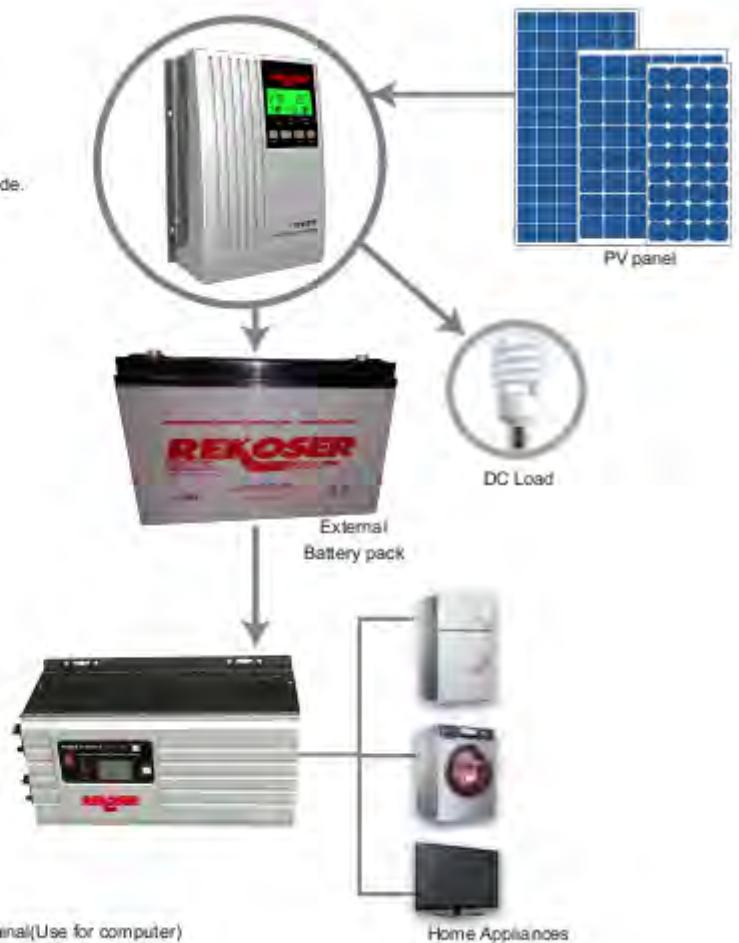


Figure 1 Charge Controller wiring compartment marks

1. LO-: The load negative terminal
2. LO+: The load positive terminal
3. BA-: The battery negative terminal
4. BA+: The battery positive terminal
5. PV-: PV array negative terminal
6. PV+: PV array positive terminal
7. REM: RS485 Communication network terminal(Use for computer)
8. BTS: Battery Remote Temperature sensor terminal



## Back Panel RSC1224-20/30/40

## Back Panel RSC1248-45/60/80



### SPECIFICATION

MODEL		RSC1224-20	RSC1224-30	RSC1224-40	RSC1248-45	RSC1248-60	RSC1248-80
Nominal Battery System Voltage (Auto detection)		12VDC/24VDC			12VDC/24VDC/36VDC/48VDC		
CONTROLLER INPUT	PV Open Circuit Voltage	100VDC@12V/ 145VDC @24V			100VDC@12V/ 145VDC @24V/ 145VDC @36V/ 145VDC @48V		
	PV Array MPPT Voltage Range	16VDC~100VDC / 32VDC~130VDC			16~100VDC / 32~130VDC / 48~130VDC / 64~130VDC		
	Max PV Input Power(12V/24V)	300W/600W	450W/900W	600W/1200W	600W/1200W	800W/1600W	1050W/2100W
	Max PV Input Power(36V/48V)				1800W/2400W	2400W/3200W	3150W/4200W
BATTERY	Absorption Voltage	12.5VDC/25.0 VDC			12.5VDC/25.0VDC/37.5VDC/50.0VDC		
	Refloat Voltage	13.7VDC/27.4 VDC			13.7VDC/27.4VDC/41.1VDC/54.8VDC		
	Float Voltage	14.3VDC/28.6 VDC			14.3VDC/28.6VDC/42.9VDC/57.2VDC		
	Low Voltage Protection Point	10.0VDC/20.0 VDC			10VDC/20VDC/30VDC/40VDC		
DC OUTPUT	Output Voltage	10.0~14.5VDC /20.0~29.0VDC			11.0VDC/20.0VDC/30.0VDC/40.0VDC		
	Peak Conversion efficiency	98% (MPPT Efficiency 99%)					
	Max Charging Current	20A	30A	40A	45A	60A	80A
	Max Output Current	20A			45A	60A	80A
	Low voltage alarm	10.25VDC/20.5 VDC			10.25VDC/20.5 VDC/30.75VDC/46.0VDC		
	Low voltage cutoff	10.0VDC/20.0 VDC			10.0VDC/20.0 VDC/30.0VDC/42.0VDC		
	Low voltage recovery	11.0VDC/22.0 VDC			11.0VDC/22.0 VDC/33.0VDC/46.0VDC		
GENERAL SPECIFICATION	Radiating mode	Fan cooling					
DISPLAY & PROTECTION	LED indication	Systematic operation, LV indication, LV protection, over charge protection, loads protection, short circuit protection					
	LCD display	Charge voltage, charge current, voltage of storage battery, capacity of storage battery, output current					
	Alarm Protections	PV array short circuit, PV reverse polarity					
		Battery reverse polarity, Over charging protection					
		Output short circuit protection					
Low voltage protection for storage battery							
MECHANICAL SPECIFICATIONS	Mounting	Wall mount					
	Machine Dimension(W*H* D)	154*236*88mm(Color box / pcs)			167.6*257.2*82.9mm (per pcs)		
	Gross Wight(Kg) (per pcs)	2.5Kg			3Kg/pcs		
	Package Dimension(W*H* D)	610*308*230mm ( 4PCS/Carton)			612*308.2*235.6mm (5pcs/Carton)		
	Gross Weight(Kg) (per Carton)	10.8Kg	13.4Kg		19Kg		
OTHER	Environmental Rating	Indoor					
	Operation Temperature Range	-25~+55°C					
	Ambient humidity	0~90% relative humidity(non-condensing)					
	Altitude	≤ 3000 m					
	Loading(20GP/40GP/40HQ)	2500pcs / 5000pcs / 5800pcs			3000pcs / 6000pcs / 7200pcs		

\*Product specifications are subject to change without further notice.