

# SOLAR CONTROLLERS



### **RSC-P Series**

#### RSC-P **PWM Solar Charge Controller**

#### Feature:

- 10A 20A 30A 50A 60A solar charge controller
- Vivid LCD graphic symbols
- Simple button operation
- Automatic identification of system voltage level
- Intelligent PWM charging mode
- Adjustable charge-discharge protection
- Automatic temperature compensation
- Settable operation mode of load
- **Battery reverse-discharge protection**
- Battery low voltage disconnection(LVD)
- **Battery reverse connection protection**
- Over current protection
- **USB** output



#### Introduction:

This intelligent, multi-purpose solar charge and discharge controller from Rekoser has a very friendly interface of fixed LCD display. Various control parameters can be flexibly set, fully meet your various application requirements.

#### LCD Display Information



#### **Inner Details**









Button	Operation	Function
5. +	Short press	Next display page;Increase when setting parameters
	Long press (≥3 s)	Increase value continuously when setting parameters
6.	Short press	Previous display page; Decrease when setting parameters
	Long press (≥3 s)	Reduce value continuously when setting parameters
7. 🛦	Short press	Switch on/off load; Enter setup/save parameters
	Long press (≥3 s)	Access/exit secondary loop interface

### **Functions**







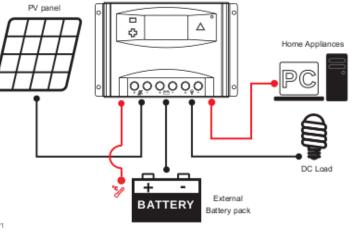


operation



USB Output

**Solar System Connection** 



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## **RSC-P Series**

#### **SERIES Controllers**



Model: RSC1224-20PU



Rated Voltage: 12V24V Auto identified Rated Current: 20A USB Port: 5V, 1A x 2

Packing info: 30pcs / carton Carton size: 535mm x 425mm x 200mm

Gross weight: 12Kg Volume: 0.045m<sup>a</sup>



Model: RSC1224-30PU



Rated Voltage: 12V24V Auto identified Rated Current: 30A USB Port: 5V, 1A x 2 LCD screen size: 2.2"

Packing info: 30pcs / carton Carton size: 535mm x 425mm x 200mm

Gross weight: 12Kg Volume: 0.045m<sup>a</sup>



Model: RSC1224-40P, 50P

Rated Voltage:12V24V Rated Current: 40A, 50A

LCD screen size: 2.6" Temperature sensor port: x1 Communication port: RJ45 ( Optional )

Packing info: 24pcs / carton

Carton size: 545mm x 425mm x 205mm

Gross weight: 14Kg Volume: 0.047m<sup>a</sup>



Model: RSC1224-60P

Rated Voltage: 12V24V Rated Current: 60A

LCD screen size: 2.6" Temperature sensor port: x1 Communication port: RJ45 ( Optional )

Packing info: 24pcs / carton

Carton size: 545mm x 425mm x 205mm

Gross weight: 17Kg Volume: 0.047m<sup>a</sup>

#### **Application**



RV, boat & field power supply solar system



Off-grid home solar system



Farm solar generation system

				SPECIFICA	TION			
	MODEL		RSC1224-40P,50P RSC1224-60P		RSC1224-60P	RSC48-50P		RSC48-60P
INPUT	PV voltage		≤50V			≤100V		
	Rated current		40A	50A	60A	40A	50A	60A
	System voltage		12/24V Auto			48V		
	High voltage disconnection		16.00V x 1/ x 2/ x 3/ x 4 ( 0.5V )					
	Rated discharging current		40A	50A	60A	40A	50A	60A
	No load loss		≤13mA			≤25mA		
	Charge loop voltage drop		≤0.21V		≤0.24V	≤0.25V		≤0.25V
	Discharge loop voltage drop		≤0.12V		≤0.10V	≤0.12V		≤0.10V
OUTPUT	Charging mode		PWM 4-stage bulk, absorption, float, equalized					
	Float charging voltage		13.8V (13V~15V ) x 1/ x 2/ x 3/ x 4					
	Absorption charging voltage	Duration 2 hours	14.4V(13V~15V) x 1/ x 2/ x 3/ x 4					
	Equalized charging voltage	Duration 2 nours	14.6V(13V~15.5V) x 1/ x 2/ x 3/ x 4					
	Low voltage protection		10.7V (10V~14V ) x 1/ x 2/ x 3/ x 4					
	Low voltage reconnecting		12.6V(10V~14V) x 1/ x 2/ x 3/ x 4					
	USB output		5V, 1A			None		
OTHER	Installing cables size		≤6n	nm2	≤16mm2	≤6n	nm2	≤16mm2
	Working temperature		-20°C~55°C					
	Dimention(L x W x H)		188mm x 95mm x 46.5mm					
	Net weight		35	5g	360g	35	5g	360g

<sup>\*</sup>Product specifications are subject to change without further notice.

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#### **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.

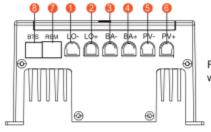
#### **LCD Display Information**

#### **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

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



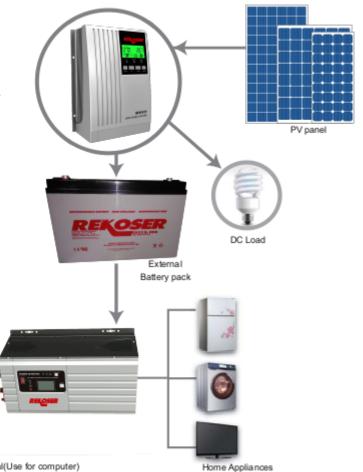
1. LO -: The load negative terminal

Figure 1 Charge Controller wiring compartment marks

- 2. LO+: The load positive terminal 6. PV+: PV array positive terminal
- 7. REM: RS485 Communication network terminal(Use for computer) BA-: The battery negative terminal

5. PV-: PV array negative terminal

4. BA+: The battery positive terminal 8. BTS: Battery Remote Temperature sensor terminal



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# **RSC Series**

### Back Panel RSC1224-20/30/40

#### **Back Panel RSC1248-45/60**









			SPECIFICA	ATION				
	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			
	PV Open Circuit Voltage	100V	/DC@12V/ 145VDC	@24V	100VDC@12V/ 145VDC @24V/ 145VDC @36V/ 145VDC @48V			
CONTROLLER	PV Array MPPT Voltage Range	16VDC	~100VDC / 32VDC	~130VDC	16~100VDC / 32~130VDC / 48~130VDC / 64~130VDC			
INPUT	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	
	Absorption Voltage		12.5VDC/25.0 VD	С	12.5VDC/25.0VDC/37.5VDC/50.0VDC			
BATTERY	Refloat Voltage		13.7VDC/27.4 VD	С	13.7VDC/27.4VDC/41.1VDC/54.8VDC			
DALLERY	Float Voltage		14.3VDC/28.6 VD	С	14.3VDC/28.6VDC/42.9VDC/57.2VDC			
	Low Voltage Protection Point		10.0VDC/20.0 VD	С	10VDC/20VDC/30VDC/40VDC			
	Output Voltage	10.0-	-14.5VDC /20.0~29	0.0VDC	11.0VDC/20.0VDC/30.0VDC/40.0VDC			
	Peak Conversion efficiency	98% (MPPT Efficiency 99%)						
DC	Max Charging Current	20A	30A	40A	45A	60A	80A	
OUTPUT	Max Output Current	20A			45A	60A	80A	
OUIPUI	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						
	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						
DISPLAY		PV array short circuit, PV reverse polarity						
PROTECTION	Alama Barta d'ann	Battery reverse polarity, Over charging protection						
	Alarm Protections	Output short circuit protection						
		Low voltage protection for storage battery						
	Mounting	Wall mount						
MEGUANUGAU	Machine Dimension(W*H* D)	154*236*88mm(Color box / pcs)			167.6*257.2*82.9mm (per pcs)			
MECHANICAL PECIFICATIONS	Gross Wight(Kg) (per pcs)	2.5Kg			3Kg/pcs			
PECIFICATIONS	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			
	Environmental Rating	Indoor						
	Operation Temperature Range	-25~+55°℃						
OTHER	Ambient humidity	0~90% relative humidity(non-condensing)						
	Altitude	≤ 3000 m						
	Loading(20GP/40GP/40HQ)	2500pcs / 5000pcs / 5800pcs			3000pcs / 6000pcs / 7200pcs			

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