



Model SR-MT2410

Main features

1. Powerful **double peak** or **multi peak** tracing technology. When the solar panel is under shadow or part of the solar panel is damaged, multiple peaks will turn up in I-V curve. This controller can still trace the Max. Power point.
2. Built-in maximum power point tracking algorithm which could promote the energy utilization efficiency of pv system. The charging efficiency is 15%~30% higher than PWM mode.
3. It can find out the best working point of I-V curve within 1 minute. the MPPT efficiency could reach to 99.9%.
4. Adopting advanced digital power supply techniques which makes the energy conversion efficiency reach up to 97%.
5. Four charging stages: MPPT - equalizing charge- boosting charge- floating charge.
6. With current-limiting charging mode. When the solar panel is oversized and charging current exceeds the rated current, the controller will lower charging power automatically, which enables the system to work under the rated charging current.
7. Fault code indication, it helps user identify the system fault.
8. Various load control methods. Could recognize day and night automatically.
9. With temperature compensation function to adjust the charge and discharge parameters automatically, which could extend the life of the battery.
10. Various system protection functions. Including over-charge, over-discharge, over-load, over-heat, battery-reverse connection and short-circuit protection etc.

Technical

Parameters	Value	
Model	SR-MT2410	
System voltage	12 V	24 V
Max. input power of solar panel	130 W	260 W
Transfer efficiency	≤96%	≤97%
Rated load current	10 A	
Rated charge current	10 A	
No load loss	<15 mA	
Max. input voltage of solar panel	<150 V	
MPPT tracing efficiency	>99%	
Over voltage protection	16.5 V	33.0 V
Limited charge voltage	15.5 V	31.0 V
Equalizing charge voltage (25°C)	15.2 V	30.4 V
Equalizing charge interval	30 days	
Boosting charge voltage (25°C)	14.4 V	28.8 V
Floating charge voltage (25°C)	13.8 V	27.6 V
Over-discharge recover voltage	12.5 V	25.0 V
Over discharge voltage	11.0 V	22.0 V
Boosting charge time	2 hours	
Equalizing charge time	1 hour	
Temperature compensation	-4.0 mv/°C/2 V	

Over temperature protection	Yes
Light-operated voltage (on)	5 V
Light-operated voltage (off)	6 V
Light-operated delay time	5 minutes
Working temperature	-35 °C~+65 °C;
Protection level	IP64
Weight	430 g
Max. wiring dimension	12 mm ²
Altitude	≤3000 m
Dimension	143*71*36 (mm)
Installation dimension	139*48(mm)