

PRODUCT OVERVIEW

EV-MT controller is an advanced maximum power point tracking (MPPT) charging technology for off-grid photovoltaic systems. It is mainly used in the field of security monitoring, RV, and household systems, etc.

FEATURES

- Supports 100V maximal open-circuit PV panel voltage
- Automatic 12V/24V lead-acid battery identification
- Works with lithium batteries
- Advanced dual-peak or multi-peak tracking technology: Continues to accurately track the maximum power point when there is shadowing or PV panel failure
- The maximum power point tracking algorithm can significantly improve the energy utilization efficiency of photovoltaic systems. The charging efficiency is 15% to 20% higher than the conventional PWM method
- MPPT tracking efficiency up to 99.9%
- Advanced digital power technology raises the circuit energy conversion efficiency to 98%
- Four-stage charge mode: MPPT / equalizing charge / boost charge / floating charge
- Limited current charge mode: in case of excessive PV battery charge the controller automatically reduces the power to the rated value
- RM-5 LCD screen
- Automatically adjusts load control by day and night

APPLICATIONS

- Off grid solar systems
- Home solar systems



Product Description

PART#	DESCRIPTION	RATED CURRENT	SYSTEM VOLTAGE	MAX SOLAR INPUT VOLTAGE
EV-MT2410N10	MPPT Controller	10A	12V/24V	<150V

Specifications

MODEL#	EV-MT2410N10	
SYSTEM VOLTAGE	12V	24V
Max Input Power of Solar Panel	130W	260W
Transfer Efficiency	<96%	<97%
Rated Charge/Discharge Current	10A	
No Load Loss	<15mA	
Max Input Voltage of Solar Panel	<150V	
MPPT Tracing Efficiency	>99%	
Over-Voltage Protection	16.5V	33V
Limited Charge Voltage	15.5V	31V
Equalizing Charge Voltage	15.2V	30.4V
Equalizing Charge Interval	30 days	
Boosting Charge Voltage	14.4V	28.8V
Floating Charge Voltage	13.8V	27.6V
Over-Discharge Voltage	11V	22V
Boosting Charge Time	2 hours	
Equalizing Charge Time	1 hour	
Over Temperature Protection	Yes	
Light-Operated Voltage (ON)	5V	
Light-Operated Voltage (OFF)	6V	
Light-Operated Delay Time	5 min	
Working Temperature	-31°F ~ 149°F	
Weight	15.6oz	
Altitude	<9842ft	
Dimension	5.62" x 2.79" x 1.47"	
Installation Dimension	5.472" x 1.88"	

Wiring Diagram

