

Overview

Appreciate you for choosing our MPPT solar charge controller, eTracer-AD series. Based on multiphase synchronous rectification technology (MSRT) and common positive design, with dual-core processor architecture and advanced MPPT control algorithm, the products in this series have the features of high response speed, high reliability, high industrial standards, etc.

With MPPT control algorithm, in any situation, products of this series can fast and accurately track out the best maximum power point (MPP) of PV array, in order to obtain the maximum solar energy in time, MSRT can guarantee very high conversion efficiency in any charge power, which sharply improves the energy efficiency of solar system. With Modbus communication protocol interface, it is convenient for customers to expand applications and monitor in various fields like telecommunication base station, household system, wilderness monitoring system, etc.

All-round electronic fault self-test function and enhanced electronic protection function could furthest avoid damages on system components resulting from installation errors or system failures.



Features

- Advanced Maximum Power Point Tracking (MPPT) technology, with efficiency no less than 99.5%
- High quality components, perfecting system performance, with maximum conversion efficiency of 98% and full load efficiency of 97%
- MSRT, realizing high conversion efficiency in the situation of low charge power
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Accurately recognizing and tracking of multiple power points
- Reliable automatic limit function of maximum PV input power, ensuring no overload
- Wide MPP operating voltage range
- High-speed and high-powered dual-core processor architecture, improving system response speed, optimizing system performance
- Die-cast aluminum case for heat dissipating, ensuring excellent heat dissipation characteristic
- 12/24/36/48VDC automatically identifying system voltage or user-defined working voltage
- Concise human-computer interactive interface, convenient multiple combination keys, dynamically displaying system operating data and working condition
- Support 4 charging options: Sealed, Gel, Flooded and User
- Battery temperature compensation function
- Real-time energy statistics function
- With RS-485, RS-232 communication bus interface and Modbus communication protocol, it is available to meet various communication requirements in different situations
- Available for PC monitoring and external display unit connecting like MT50 and so on, realizing real-time data checking and parameters setting
- Support software upgrade



Solar Car



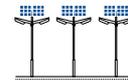
Solar Home



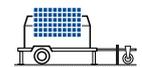
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

Model	ET4415AD	ET6415AD
Electrical Parameters		
Nominal System Voltage	12/24/36/48VDC Auto	
Nominal Battery Current	45A	60A
Battery Input Voltage Range	8V ~ 68V	
Max. PV open circuit voltage	150V (at minimum operating environment temperature) 138V (at 25°C environment temperature)	
MPP Voltage Range	Battery voltage+2V ~ 108V ^①	
Maximum Input Power	600W/12V;1200W/24V 1800W/36V;2400W/48V	800W/12V;1600W/24V 2400W/36V;3200W/48V
Self Consumption	1.4W ~ 2.2W	
Grounding	Common Positive	
Environmental Parameters		
LCD temperature range	-20°C ~ +70°C	
Ambient temperature range ^②	-25°C ~ +55°C	
Storage temperature range	-30°C ~ +85°C	
Humidity range	≤95%, N.C.	
Enclosure	IP20	
Altitude	< 5000 m (Derating to operate according to IEC60146 at a height exceeding 1000 m)	
Mechanical Parameters		
Overall dimension	398.6mm x208mm x107mm	449.1mm x208mm x107mm
Mounting Hole	Φ10	Φ10
Terminal	2AWG(35mm ²)	2AWG(35mm ²)
Net Weight	4.3kg	5.5kg

①Max. PV open circuit voltage must never exceed 138V under 25°C conditions.

②Please operate controller at permitted ambient temperature. If over permissible range, please derate capacity in service.