iTracer Series

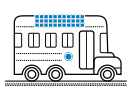
MPPT solar charge controller

Overview

IT6415ND charge controller with 60A DC output current adopts advanced Maximum Power Point Tracking (MPPT) algorithm, which can harvest the maximum power from the solar array tocharge the battery. It is capable of supporting up to 800W PV power in 12V system, 1600W in 24V system,2400W in 36V system, and 3200W in 48V system.

Features

- MPPT tracking efficiency above 99.5%
- Maximum charge conversion efficiency as high as 98%
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- Multiphase sychronous rectification technology (MSRT)
- 60A DC load output current
- Remote monitoring function
- Data-log function, recording system running information and event
- Die cast aluminum case design
- Extensive electronic protections
- IEC62109 certified
- With RS-485, RS-232 communication bus interface and Modbus communication protocol

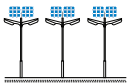


Solar Car

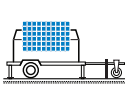
Solar Home

Solar Backpack

Solar Boat



Solar Street Light



Solar Power Generator

Technical Specifications

Model	IT6415ND
Nominal system voltage	12/24/36/48VDC
Battery type	Sealed(Default)/Gel/Flooded/User
Battery input voltage range	8~68V
Rated charge current	60A
Rated discharge current	60A
Max. conversion efficiency	≤98.0%
Tracking efficiency	≥99.5%
Max. PV open circuit voltage	150V(At minimum operating environment temperature) 138V(At 25℃ environment temperature)
MPP voltage range	(Battery voltage+2V) ~ 108V
Rated charge powe	800W/12V;1600W/24V;2400W/36V;3200W/48V
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V
Float Voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V
Self-consumption	1.4W ~ 2.6W
Temperature compensation	-3mV/℃/2V (Default)
Relative humidity	≤95%, N.C.
Enclosure	IP20
Communication port	RS485, RS232
Grounding	Common Negative
Operating temperature range	- 25℃ ~ +50℃
Dimensions(LxWxH)mm	440×231×110
Net weight	5.9kg

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