

EPSOLAR TECHNOLOGY

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Solar Charge Controller · Inverter



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COMPANY PROFILE

EPSOLAR TECHNOLOGY

Beijing Epsolar Technology Co., Ltd. is a new and high-tech enterprise specialized in power products researching, manufacturing and marketing in Beijing. We provide products including solar charge controller, off-grid inverter, LED driver and special power units etc., as well as design and supply relevant solar systems. We have passed the ISO9001 – 2008, and our products have passed CGC-SOLAR certification and CE certification as well as other domestic and international authoritative certification and a number of patents.

BRAND INTRODUCTION



"EP" is an abbreviation of "Electronic Power"; it indicates our main product-Electronic Power Supply; "SOLAR" refers to Solar Industry.

Brand "EPSOLAR" applies to solar charge controller series product made by EPSOLAR Technology.



"EP" is an abbreviation of "Electronic Power"; it indicates our main product-Electronic Power Supply; "EVER" means "FOR EVER"; it indicates that EPSOLAR Technology firmly focuses on R&D and is determined and committed to creating high quality power supply products under its User Centric philosophy.

Brand "EPEVER" applies to inverter series and other power supply product made by EPSOLAR Technology.

OUR ADVANTAGE

RAPID DEVELOP

Since 2007, we have sold two million controllers for off grid systems in more than 120 countries and are in the process of developing many new products.

INNOVATIVE DESIGN

Our technical team has over 20 years professional R&D experience. And our innovation will keep the customer one step ahead for ever.

QUALITY CONTROL

With ISO9001 and ISO14001 certification, we build-up strict quality control systems from incoming components to final products.



DIVERSIFIED PRODUCTS

We have 20 series, more than 100 models of products which can meet customers' different requirements.

QUALITY COMPONENTS

All our products use industrial grade electronic components from global well-known companies.

HIGH COST PERFORMANCE

We design and provide high quality products at reasonable price.

CONTENTS



ISO9001:2008 ISO14001:2004 RoHS CE 

Solar Charge Controller

	MPPT controller
01	Tracer series
05	eTracer series
07	iTracer series

	PWM controller
09	LandStar series
13	ViewStar series
15	EP series

	Modular solar controller
17	eModule series

Pure Sine Wave Inverter

21	STI series
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LED Driver

23	DCCP series
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Tracer series MPPT solar charge controller



Tracer series controller adopts latest MPPT technology (Maximum Power Point Tracking) and advanced tracking algorithm to make the solar module operate at ideal voltage which the solar modules can produce the maximum available power.

Compared to conventional PWM controller, MPPT technology increases the charge efficiency up to 30% and potentially decrease the power of solar array needed.

The ability to step-down the higher voltage solar module to recharge a lower voltage battery bank greatly increases system design flexibility. The cable size can be reduced because of the small current from the solar array.

FEATURES

- MPPT technology
- Peak conversion efficiency of 97%
- High Tracking efficiency of 99%
- Several seconds tracking speed
- 4-Stage charge with PWM output
- Nature convection cooling
- Full power output in ambient temperature up to 45 °C
- Temperature compensation
- Sealed, Gel and Flooded battery option
- Widely used, automatically recognize day/night
- Diversified load control
- RJ45 interface & optional remote meter



ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV reverse polarity protection
- PV overvoltage alarm protection
- PV over current alarm protection
- Battery overcharge protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load short circuit protection
- Load overload protection

Application



PRODUCT FAMILY



Tracer-1210RN
Tracer-1215RN
12/24V auto work
10A



Tracer-2210RN
Tracer-2215RN
12/24V auto work
20A



Tracer-3215RN
Tracer-4210RN
12/24V auto work
30A,40A

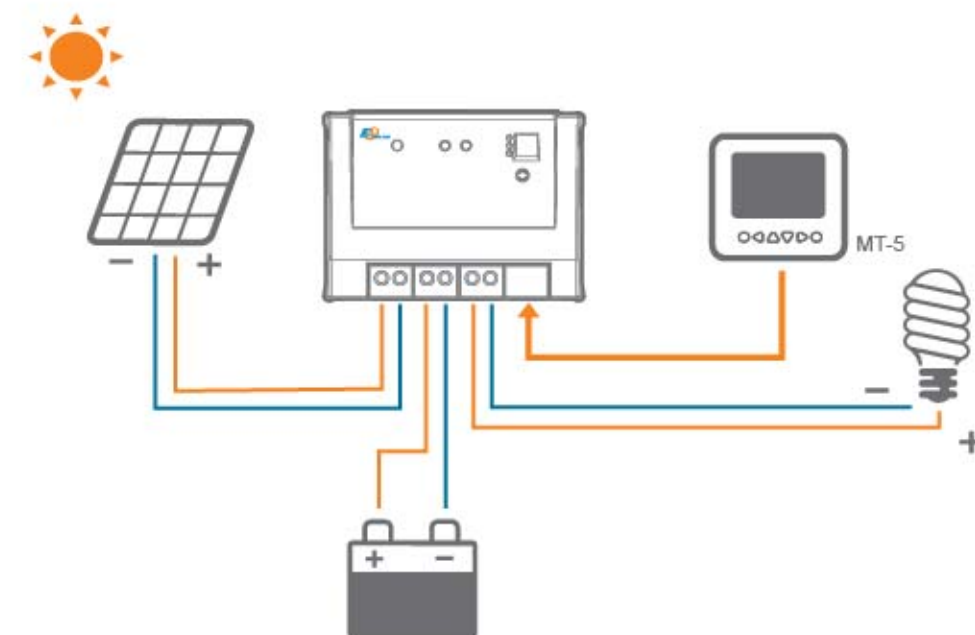


MT-5
Remote meter and 2m
communication cable

TECHNICAL SPECIFICATIONS

Model	Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4210RN
Nominal system voltage	12/24V auto work			
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	20A	20A
Max. battery voltage	32V			
Max. PV open circuit voltage	100VDC Tracer-1210RN	100VDC Tracer-2210RN	150VDC	100VDC
	150VDC Tracer-1215RN	150VDC Tracer-2215RN		
Max. PV input power	12V 130W	12V 280W	12V 390W	12V 500W
	24V 260W	24V 520W	24V 780W	24V 1000W
Equalize charging voltage	Sealed: 14.6V, Flooded: 14.8V			
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V			
Float charging voltage	Gel /Sealed /Flooded: 13.8V			
Low voltage reconnect voltage	Gel /Sealed /Flooded: 12.6V			
Low voltage disconnect voltage	Gel /Sealed /Flooded: 11.1V			
Self-consumption	≤10mA (24V)			
Grounding	Common negative			
Temp. compensation	-5mV/°C/2V			
Overall dimension	156x97x88mm	169x118x83mm	242x169x91mm	242x169x91mm
Net weight	0.55kg	0.95kg	2kg	2.05kg
Enclosure	IP30			
Working temperature	-35°C ~ +55°C			

※ Technical data for 12V system at 25°C, twice in 24V system rate.





iTracer series

MPPT controller with load control

iTracer is an industrial grade product with advanced Maximum Power Point Tracking (MPPT) algorithm. It can deliver the maximum available power for charging batteries and charge a lower nominal voltage battery from a higher nominal voltage array. And can be applied in the off-grid PV systems up to 3KW. The die-cast aluminum design ensures excellent heat dispersion.

FEATURES

- Advanced MPPT algorithm with the max. tracking efficiency up to 99%.
- Multi-phase synchronous rectification technology realizing peak conversion efficiency 98%
- Multiphase control technology
- Four battery type options: Sealed, Gel, Flooded and USER
- 128*64 dot-matrix LCD intuitively displays data and state
- Energy statistics recording
- Diversified load control mode
- Programmable battery management parameters
- Built-in running data and event logging, max.15 months
- Extensive communication capabilities (RS232, RS485 with Modbus protocol, CAN Bus extendable)
- PC software available for real time monitoring and parameter setting
- Field upgradable firmware



ELECTRONIC PROTECTIONS

- PV short circuit protection
- PV reverse polarity protection
- PV overvoltage alarm protection
- PV current limiting protection
- Battery overcharge protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load overload protection
- Load short circuit protection
- Overheating protection

Application



PRODUCT FAMILY



IT3415ND/ IT4415ND / IT6415ND
12/24/36/48V auto work
30A,45A,80A



PC software



CC-USB-RS485
-150U-3.81
PC communication cable

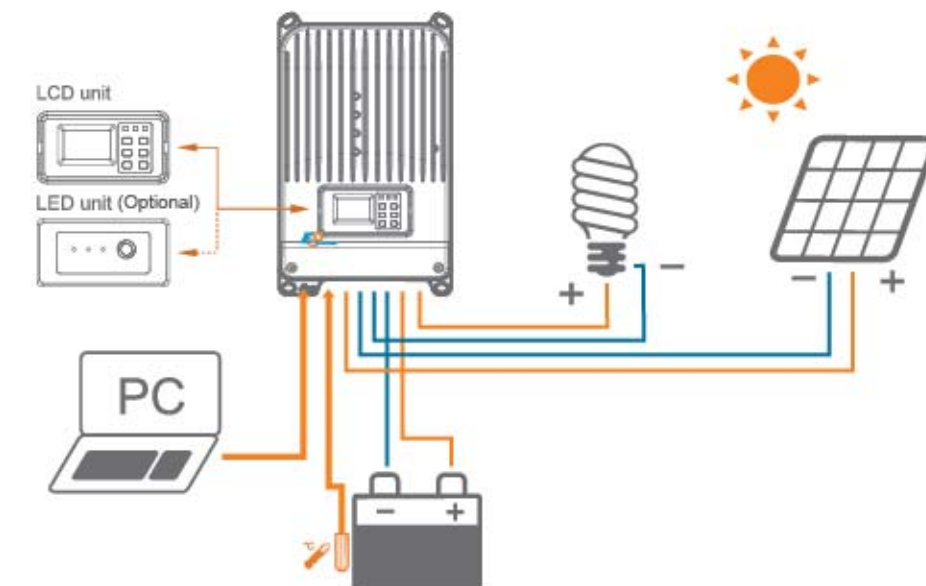


RTS300R10K5.08A
Remote temperature sensor

TECHNICAL SPECIFICATIONS

Model	IT3415ND	IT4415ND	IT6415ND
Nominal system voltage	12/24/36/48V auto work		
Rated battery current	30A	45A	60A
Rated load current	30A	45A	60A
Max. battery voltage	72V		
Max. PV open circuit voltage	150V		
Max. PV input power	12V 400W	12V 600W	12V 800W
	24V 800W	24V 1200W	24V 1600W
	36V 1200W	36V 1800W	36V 2400W
	48V 1600W	48V 2400W	48V 3200W
Equalize charging voltage	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V		
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.8V, User-defined: 9~17V		
Float charging 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	1.4~2.2W		
Grounding	Common negative		
Temp. compensation	-3mV/°C/2V		
Overall dimension	358x219x102mm	382x231x107mm	440x231x110mm
Net weight	3.7kg	4.6kg	5.9kg
Enclosure	IP20		
Working temperature	-25°C to +55°C		

※ Technical data for 12V system at 25°C, twice in 24V system rate, triple in 36V system rate and quadruple in 48V system rate.



Product Application

