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Version:2023

SOLAR CHARGE CONTROLLER

PRODUCT CATALOG 2023

www.epever.com

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PWM
Solar Charge Controllers

ABOUT EPEVER

We provide tools to explore the off-grid world without concerns of running out of electrical power.A team of talented creators came together, bringing their knowledge, experience, passion and curiosity to transform complex advanced technology into devices for harvesting energy from sun.Headquartered in China's capital Beijing,EPEVER benefits from diverse sources of talent. We started from a small company at 2007 and now we are playing a global role in off-grid solar equipment, with more than 120 partners all over the world.

Our mission is to ensure, everyone has access to electrical energy everywhere by helping people to perform better with higher efficiency where there is no grid power.EPEVER passed ISO9001: 2015, ISO14001:2015 and ISO45001:2018 and our products comply with international standards CGC-SOLAR, CE, ROSH, FCC, and ETL certificates. We established a high-tech manufacturing facility as our Huizhou subsidiary to increase the production capacity in 2019.

EPEVER is now a leading manufacturer of solar charge controllers, off-grid inverters, inverter chargers, solar power system and other solar power units.

We believe in green energy and it's our passion.

SOLAR STATION SYSTEM

SOLAR HOME SYSTEM

SOLAR VESSELS SYSTEM

SOLAR RVs SYSTEM

SOLAR STREETLIGHTS SYSTEM

We can provide many series, many models of MPPT solar charge controllers

Adopting the advanced MPPT control algorithm, EPEVER MPPT solar controller can minimize the maximum power point loss rate and loss time. It makes this product track the PV array's maximum power point and obtain maximum energy under any situation. Compared with PWM charging method, MPPT solar controllers can increase the energy utilization ratio by 20%-30%.Different power and size MPPT solar controllers can meet various power needs and provide safer electricity.

EPEVER MPPT Solar Charge Controllers Benefits

99.5%	MPPT charging, the tracking efficiency up to 99.5%
98%	MPPT charging conversion efficiency up to 98%

EPEVER Solar Charge Controllers Benefits-So Much More

- More Energy
- Smart Energy Management
- Safe and Reliable
- Easy Installation
- Continuous Operation
- High Efficiency

MPPT

Tracer-AN Solar Charge Controller

10-40A,12/24VDC Auto

Overview:

Tracer-AN(10A-40A)series charge controller adopts MPPT(Maximum Power Point Tracking)technology. In any situation, it can track the maximum power point (MPP) of the solar array and obtain the maximum solar energy rapidly and accurately. It can generate up to 30% more power compared with the PWM charge controller. This series can accept max.100V Voc and work with the solar panels which are designed for on-grid applications. The multifunction LCD display the system status vividly.

Features:

*MPPT tracking efficiency above 99.5%

*Maximum charge conversion efficiency as high as 98%

*Support lead-acid and lithium-ion batteries

*Multiple load work modes

*Charging power and current limitation function

*High-temperature charging power derating function

*Standard Modbus communication protocol with RS485 interface

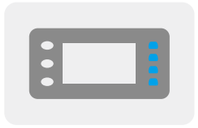
*Real-time energy statistics function

Specifications

Model	Tracer1206AN	Tracer2206AN	Tracer1210AN	Tracer2210AN	Tracer3210AN	Tracer4210AN
Nominal system voltage	12/24VDC/Auto					
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User					
Battery input voltage range	8～32V					
Rated charge current	10A	20A	10A	20A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A
Rated charge power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V
Max. conversion efficiency	⩽98.0%					
Tracking efficiency	⩾99.5%					
Max. PV open circuit voltage	60V（At minimum operating environment temperature) 46V(At 25℃ environment temperature)		100V（At minimum operating environment temperature）; 92V（At 25℃ environment temperature)			
MPP voltage range	(Battery voltage +2V)～36V		(Battery voltage +2V)～72V			
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	⩽12mA					
Temperature compensation (for lead-acid battery)	-3mV/℃/2V (Default)					
Relative humidity	⩽95%, N.C.					
Enclosure	IP30					
Communication interface	RS485(RJ45)					
Grounding	Common negative					
Operating temperature range	-25℃～+45℃(100% input and output)					
Dimensions(LxWxH)(mm)	172×139×44	220×154×52	172×139×44	220×154×52	228×164×55	252×180×63
Net weight	0.57kg	0.94kg	0.57kg	0.94kg	1.26kg	1.65kg

1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system.

Accessories (optional)

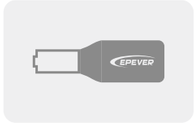


MT-75
Remote Meter

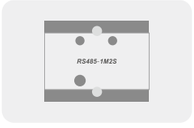
MT-50
Remote Meter

EPEVER-RTU-4G
Wireless Data Transmission Unit

EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

Tracer-AN Solar Charge Controller

60A, 12/24VDC Auto
50-100A, 12/24/36/48VDC Auto

Overview:

Tracer-AN (50A-100A) series is the largest charge controller series in EPEVER's product range and can take up to 5KW solar panel. For even more power, the user can use PAL-ADP-50N to connect max. 6 units of a controller in parallel for up to 30KW system. The multiple dry contact signals are designed for a diversified application.

Features:

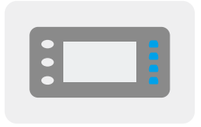
*MPPT tracking efficiency above 99.5%
*Maximum charge conversion efficiency as high as 98%
*Support lead-acid and lithium-ion batteries
*Common negative grounding, Charging current up to 100A
*Charging power and current limitation function
*High-temperature charging power derating function
*3 relays design for different demand: utility, generator and load
*Support up to 6 units in parallel
*Remote temperature and voltage sensor design
*Isolated RS-485 with 5VDC/200mA and MODBUS protocol

Specifications

Model	Tracer6210AN	Tracer5415AN	Tracer6415AN	Tracer8415AN	Tracer10415AN	Tracer5420AN	Tracer6420AN	Tracer8420AN	Tracer10420AN
Nominal system voltage	12/24VDC/Auto	12/24/36/48VDC/Auto							
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User								
Battery input voltage range	8V～32V	8V～68V	8V～68V	8V～68V	8V～68V	8V～68V	8V～68V	8V～68V	8V～68V
Rated charge current	60A	50A	60A	80A	100A	50A	60A	80A	100A
Rated charge power	750W/12V 1500W/24V	625W/12V 1250W/24V 1875W/36V 2500W/48V	750W/12V 1500W/24V 2250W/36V 3000W/48V	1000W/12V 2000W/24V 3000W/36V 4000W/48V	1250W/12V 2500W/24V 3750W/36V 5000W/48V	625W/12V 1250W/24V 1875W/36V 2500W/48V	750W/12V 1500W/24V 2250W/36V 3000W/48V	1000W/12V 2000W/24V 3000W/36V 4000W/48V	1250W/12V 2500W/24V 3750W/36V 5000W/48V
Max. conversion efficiency	98.00%	98.30%	98.60%	98.50%	98.60%	98.30%	98.10%	98.50%	98.50%
Tracking efficiency	⩾99.5%								
Max. PV open circuit voltage	100V(At minimum operating environment temperature) 92V (At 25°C environment temperature)	150V(At minimum operating environment temperature) 138V(At 25°C environment temperature)				200V（At minimum operating environment temperature) 180V(At 25°C environment temperature)			
MPP voltage range	(Battery Voltage +2V)～72V	(Battery Voltage +2V)～108V				(Battery Voltage+2V)～144V			
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	98mA/12V;60mA/24V;50mA/36V;46mA/48V								
Temperature compensation (for lead-acid battery)	-3mV/°C/2V(Default)								
Relative humidity	5% to 95% (N.C.)								
Enclosure	IP20								
Communication interface	RS485(5VDC/200mA, Two RJ45 ports in parallel)								
Grounding	Common negative								
Operating temperature range	-25°C～+60°C(derating above 45°C)								
Dimensions(LxWxH)(mm)	340×232×105.2	261×216×119	340×236×119	394×240×134	394×242×143	261×216×119	340×236×119	394×240×134	394×242×143
Net weight	3.5kg	3.5kg	4.5kg	6.1kg	7.4kg	3.5kg	4.5kg	6.1kg	7.4kg

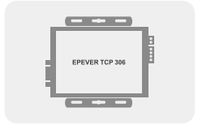
1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system, *3 in 36V system, *4 in 48V system.

Accessories (optional)

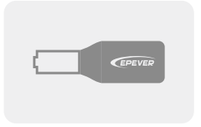

MT-75
Remote Meter


MT-50
Remote Meter

EPEVER-RTU-4G
Wireless Data Transmission Unit



EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server


PAL-ADP-50A
Parallel Adapter

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

XTRA Solar Charge Controller

10-40A, 12/24VDC Auto
30A,40A, 12/24/36/48VDC Auto

Overview:

XTRA(10A-40A) series is advanced maximum power point tracking (MPPT) charge controllers for off-grid photovoltaic systems, with optional display units (XDB1/XDS1/XDS2). It is designed according to the international standard with higher quality, reliability , and safety. The limitation function of the charging power, charging current, and automatic power reduction function fully ensure stability when working with oversize PV modules(max.1.5 times of rated power) and operating under a high-temperature environment.

Features:

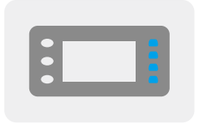
*MPPT tracking efficiency above 99.5%
*Maximum charge conversion efficiency as high as 97.4%
*Support lead-acid and lithium-ion batteries
*Multiple load work modes
*Charging power and current limitation function
*High-temperature charging power derating function
*Standard Modbus communication protocol with isolated RS485 interface
*Real-time energy statistics function
*Optional LCD display units (XDB1/XDS1/XDS2) and accessories
*IP33 ingress protection design
*CE(LVD IEC62109,EMC EN3/1-6-61000)and ROHS,ETL(UL-1741:2010 and Canadian CSA C22.2 No.107.1.01),FCC Class B Part 15 Compliant,IEC62509:2010

Specifications

Model	XTRA1206N	XTRA2206N	XTRA1210N	XTRA2210N	XTRA3210N	XTRA4210N	XTRA3215N	XTRA4215N	XTRA3415N	XTRA4415N
Nominal system voltage	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24/36/ 48VDC/Auto	12/24/36/ 48VDC/Auto
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User									
Battery input voltage range	8～32V	8～32V	8～32V	8～32V	8～32V	8～32V	8～32V	8～32V	8～68V	8～68V
Rated charge current	10A	20A	10A	20A	30A	40A	30A	40A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A	30A	40A	30A	40A
Rated charge power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	390W/12V 780W/24V 1170W/36V 1560W/48V	520W/12V 1040W/24V 1560W/36V 2080W/48V
Max. conversion efficiency	97.90%	98.30%	98.20%	98.30%	98.60%	98.60%	97.60%	97.90%	98.10%	98.50%
Tracking efficiency	⩾99.5%									
Max. PV open circuit voltage	60V(At minimum operatingenvironment temperature) 46V(At 25°C environmenttemperature)		100V（At minimum operating environment temperature） 92V（At 25°C environment temperature）				150V（At minimum operating environment temperature） 138V（At 25°C environment temperature）			
MPP voltage range	(Battery voltage +2V)~36V	(Battery voltage +2V)~36V	(Battery voltage +2V)~72V	(Battery voltage +2V)~72V	(Battery voltage +2V)~72V	(Battery voltage +2V)~72V	(Battery voltage +2V)~108V	(Battery voltage +2V)~108V	(Battery voltage +2V)~108V	(Battery voltage +2V)~108V
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	⩽14mA(12V) ⩽15mA(24V)	⩽14mA(12V) ⩽15mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V)	⩽30mA(12V) ⩽16mA(24V) ⩽13mA(36V) ⩽13mA(48V)	⩽30mA(12V) ⩽16mA(24V) ⩽13mA(36V) ⩽13mA(48V)
Temperature compensation (for lead-acid battery)	-3mV/°C/2V (Default)									
Relative humidity	⩽95%, N.C									
Enclosure	IP33									
Communication interface	RS485(RJ45)									
Grounding	Common negative									
Operating temperature range	-25°C～+50°C(LCD);-30°C～+50°C(No LCD)						-25°C～+45°C(LCD);-30°C～+45°C(No LCD)			
Dimensions(LxWxH)(mm)	175×143×48	217×158×56.5	175×143×48	217×158×56.5	230×165×63	255×185×67.8	255×185×67.8	255×187×75.7	255×187×75.7	255×189×83.2
Net weight	0.57kg	0.96kg	0.57kg	0.96kg	1.31kg	1.70kg	1.70kg	2.07kg	2.07kg	2.47kg

1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system, *3 in 36V system, *4 in 48V system.

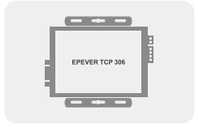
Accessories (optional)



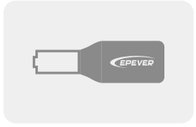
MT-75
Remote Meter

MT-50
Remote Meter

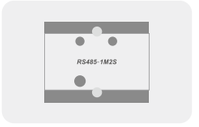
EPEVER-RTU-4G
Wireless Data Transmission Unit



EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

DuoRacer Solar Charge Controller

10-30A, 12VDC or 12/24VDC

Overview:

DuoRacer series is perfect for off-grid solar system such as motorhome, RVs, campers, boats, and so on. It charges the main battery (BATT1)for living, and supports trickle charging(max. 1A) to the start battery(BATT2) of vehicles at the same time.

Features:

*Maximum Power Point Tracking technology with ultra-fast tracking speed and the tracking efficiency is no less than 99.5%

*Advanced MPPT control algorithm to minimize the MPPlost rate and lost time

*The wider range of the MPP operation voltage to improve the PV module utilization

*Charging power & charging current limit function(BATT1)

*High quality and low failure rate components

*Digital circuit control of adaptive three-stage charging mode

*BATT1 type can be set via LED/LCD

*Product runs into the low self-consumption mode if PV voltage is lower than 5V and there is no manual operation for some time.

*100% charging and discharging in operating environmental temperature range

*LED and LCD display units optional

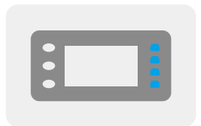
*AES control signal for car refrigerator to avoid energy waste

*Standard Modbus protocol and RS485 (5V/200mA) communication port for the customer to expand the application area

Specifications

Model	DR1106N-DDB/DDS	DR2106N-DDB/DDS	DR3106N - DDB/DDS	DR1206N - DDB/DDS	DR2206N - DDB/DDS	DR3206N - DDB/DDS	DR2210N - DDB/DDS	DR3210N - DDB/DDS
BATT1 rated voltage	12VDC	12VDC	12VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC
BATT2 rated voltage	12VDC	12VDC	12VDC	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto
BATT1 rated charge current	10A	20A	30A	10A	20A	30A	20A	30A
BATT2 rated charge current	1A	1A	1A	1A	1A	1A	1A	1A
Battery input voltage range	8.5～16V	8.5～16V	8.5～16V	8.5～32V	8.5～32V	8.5～32V	8.5～32V	8.5～32V
Max . PV open circuit voltage	60V（At minimum operating environment temperature) 46V（At 25°C environment temperature ）						100V（At minimum operating environment temperature) 92V(At 25°C environment temperature)	
MPP voltage range	(Battery Voltage+2V)～36V						(Battery Voltage+2V)～72V	
Rated charge power	130W/12V	260W/12V	390W/12V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	260W/12V 520W/24V	390W/12V 780W/24V
Max. conversion efficiency	96.30%	96.90%	97.40%	97.40%	97.50%	98%	97.50%	98%
Full load efficiency	95.50%	94.60%	94.20%	97%	96%	96%	96%	96%
Self-consumption	12mA/12V;6mA/12V (Low-power mode)			12mA/12V;8mA/24V;4mA/12V;3mA/24V (Low-power mode)			26mA/12V;15mA/24V;19mA/12V;10mA/24V (Low-power mode)	
Temperature compensation	-3mV/°C/2V(default)							
Grounding	Common negative							
BATT2 full voltage	13.8V/12V	13.8V/12V	13.8V/12V	13.8V/12V; 27.6V/24V(default)	13.8V/12V; 27.6V/24V(default)	13.8V/12V; 27.6V/24V(default)	13.8V/12V; 27.6V/24V(default)	13.8V/12V; 27.6V/24V(default)
BATT2 charge return voltage	13V/12V	13V/12V	13V/12V	13V/12V; 26V/24V(default)	13V/12V; 26V/24V(default)	13V/12V; 26V/24V(default)	13V/12V; 26V/24V(default)	13V/12V; 26V/24V(default)
Operating temperature range	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+45°C(DDS) -30°C～+45°C(DDB)	-20°C～+50°C(DDS) -30°C～+50°C(DDB)	-20°C～+45°C(DDS) -30°C～+45°C(DDB)
Enclosure	IP33							
Dimension(LxWxH)(mm)	227.2×143×58	243.7×158×63	247.2×165×68.5	227.2×143×58	243.7×158×63	247.2×165×68.5	243.7×158×63	247.2×165×68.5
Net weight	0.8kg	1.1kg	1.4kg	0.8kg	1.1kg	1.4kg	1.1kg	1.4kg

Accessories (optional)

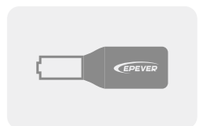


MT-75
Remote Meter

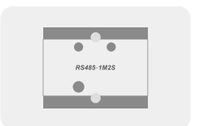
MT-50
Remote Meter

EPEVER-RTU-4G
Wireless Data Transmission Unit

EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

Tracer-BN Solar Charge Controller

20-40A, 12/24VDC

Overview:

Tracer-BN series adopts common negative design, advanced MPPT control algorithm, and die-cast aluminum heat dissipation design. Modbus communication protocol interface is convenient for extending applications such as telecommunication base station, household system, RV system, street lighting system, field monitoring system, etc.

Features:

*MPPT tracking efficiency above 99.5%

*Maximum charge conversion efficiency as high as 98%

*Multiple load work modes

*Real-time energy statistics function

*Battery type selection: Sealed, Gel, Flooded and User(programmable)

*Extensive electronic protection

*Standard Modbus communication protocol with RS485 interface

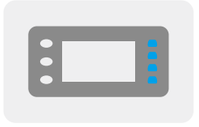
*Die-cast aluminum case design

Specifications

Model	Tracer2215BN	Tracer3215BN	Tracer4215BN
Nominal system voltage	12/24VDC/Auto		
Battery type	Sealed(Default)/Gel/Flooded/User		
Battery input voltage range	8～32V		
Rated charge current	20A	30A	40A
Rated discharge current	20A	20A	20A
Rated charge power	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V
Max. conversion efficiency	⩽98.0%		
Tracking efficiency	⩾99.5%		
Max. PV open circuit voltage	150V(at minimum operating environment temperature) 138V(at 25°C environment temperature)		
MPP voltage range	Battery voltage+2V～108V		
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	⩽60mA(12V)；⩽30mA(24V)		
Temperature compensation	-3mV/°C/2V(Default)		
Relative humidity	⩽95% (N.C.)		
Enclosure	IP30		
Communication interface	RS485(RJ45)		
Grounding	Common negative		
Operating temperature range	-35°C～+55°C		
Dimensions(LxWxH)mm	216.6×142.6×56	280.7×159.7×60	302.5×182.7×63.5
Net weight	1.5kg	2.2kg	2.9kg

The voltage point is for 12V system, please *2 in 24V system.

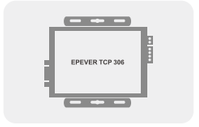
Accessories (optional)



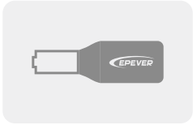
MT-75
Remote Meter

MT-50
Remote Meter

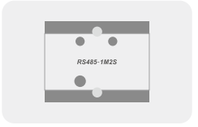
EPEVER-RTU-4G
Wireless Data Transmission Unit



EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

iTracer Solar Charge Controller

60A,12/24/36/48VDC

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 to charge 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

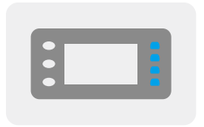
*IEC62109 certified

*With RS-485, RS-232 communication bus interface and Modbus communication protocol

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°C 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/°C/2V (Default)
Relative humidity	⩽95%, N.C.
Enclosure	IP20
Communication port	RS485, RS232
Grounding	Common Negative
Operating temperature range	-25°C～+50°C
Dimensions(LxWxH)mm	440×231×110
Net weight	5.9kg

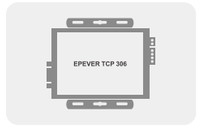
Accessories (optional)



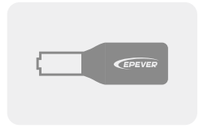
MT-75
Remote Meter

MT-50
Remote Meter

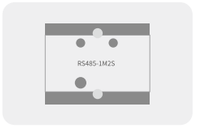
EPEVER-RTU-4G
Wireless Data Transmission Unit



EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

Tracer-BP IOT
Solar Charge Controller

10-30A,12/24/36/48VDC

Overview:

Tracer-BP series adopts advanced MPPT (Maximum Power Point Tracking) charging methods which will results in up to 30% charging efficiency increase compared with the PWM charge controllers. The RS485 interface with standard MODBUS communication protocol and 5V,150mA power supply makes it easy for the customer to expand the application. With the accessories like MT50, WiFi module, Bluetooth adapter, IoT module, users can realize remote monitoring and controlling the solar system via app and cloud platform.

Features:

*MPPT(maximum power point tracking)charging

*Support lead-acid and lithium-ion batteries

*Lithium battery self-activating function

*Multi load control mode

*Extensive electronic protections

*RS 485 communication, support IoT monitoring

*IP68 Ingress protection(1.5 meters, 72h)

Specifications

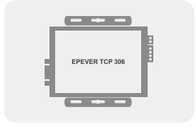
Model	Tracer2606BP	Tracer3906BP	Tracer5206BP	Tracer2610BP	Tracer3910BP	Tracer5210BP	Tracer7810BP
Nominal system voltage	12/24VDC/Auto						
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User						
Battery input voltage range	8.5～32VDC						
Rated charge current	10A	15A	20A	10A	15A	20A	30A
Rated discharge current	10A	15A	20A	10A	15A	20A	30A
Rated charge power	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	390W/12V 780W/24V
Max. conversion efficiency	⩽98%						
Tracking efficiency	⩾99%						
Max. PV open circuit voltage	60V(at minimum operating environment temperature) 46V(at 25°C environment temperature)			100V(at minimum operating environment temperature) 92V(at 25°C environment temperature)			
MPP voltage range	(Battery voltage+2V) ～36V	(Battery voltage+2V) ～36V	(Battery voltage+2V) ～36V	(Battery voltage+2V) ～72V	(Battery voltage+2V) ～72V	(Battery voltage+2V) ～72V	(Battery voltage+2V) ～72V
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	⩽13mA(12V)；⩽11.5mA(24V)						
Temperature compensation (for lead-acid battery)	-3mV/°C/2V(default)						
Enclosure	IP68						
Communication interface	RS485（waterproof）						
Operating temperature range	-40°C～+60°C	-40°C～+60°C	-40°C～+60°C	-40°C～+60°C	-40°C～+60°C	-40°C～+60°C	-40°C～+50°C
Dimensions(LxWxH)(mm)	124×89×30	150×93.5×32.7	153×105×52.1	124×89×30	150×93.5×32.7	153×105×52.1	153.3×105×52.1
Net weight	0.54kg	0.74kg	1.20kg	0.54kg	0.74kg	1.20kg	1.26kg

1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system.

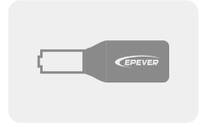
Accessories (optional)

MT-50
Remote Meter

EPEVER-RTU-4G
Wireless Data Transmission Unit



EPEVER TCP 306
Serial Device Server



EPEVER WiFi 2.4G RJ45 D
WIFI Serial Server

EPEVER can provide many accessories to meet different applications.

Please contact sales for more accessories information.

Tracer-BPL IOT
Solar Controller & LED Driver

10-20A,12/24VDC

Overview:

Tracer-BPL series MPPT solar charge controller combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed. This series adopts the advanced MPPT (Maximum Power Point Tracking) charging methods which will results up to 30% charging efficiency increase compared with the PWM charge controllers. Thanks to the RS485 communication, the Tracer-BPL has the ability to realize remote monitoring via IoT.

Features:

*MPPT charging mode

*LED load dimmer function

*Support lead-acid and lithium-ion batteries

*Lithium battery self-activating function

*Intelligent power derating to ensure 365 days lighting on

*Multiple load control modes

*Extensive electronic protection

*RS485 communication port to realize IOT monitor

*IP67 Ingress protection(1.5 meters, 72h)

Specifications

Model	Tracer2606BPL	Tracer3906BPL	Tracer5206BPL	Tracer2610BPL	Tracer3910BPL	Tracer5210BPL
Nominal system voltage	12/24VDC/Auto					
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User					
Battery input voltage range	9～32VDC					
Rated charge current	10A	15A	20A	10A	15A	20A
Rated charge power	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V
Max. output current	3.3A	4.5A	6.6A	3.3A	4.5A	6.6A
Max. output power	100W	130W	200W	100W	130W	200W
Max. PV open circuit voltage	60V(at minimum operating environment temperature) 46V(at 25°C environment temperature)			100V(at minimum operating environment temperature) 92V(at 25°C environment temperature)		
MPP voltage range	(Battery voltage+2V)～36V			(Battery voltage+2V)～72V		
Output voltage range	(Max. battery voltage+2V)～58V					
Output current control accuracy	⩽2%					
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	⩽15mA/12V;⩽22mA/24V					
Temperature compensation (for lead-acid battery)	-3mV/°C/2V(default)					
Enclosure	IP67					
Communication interface	RS485(waterproof)					
Operating temperature range	-40°C～+60°C					
Dimensions(LxWxH)(mm)	124×89×30	150×93.5×32.7	153×105×52.1	124×89×30	150×93.5×32.7	153×105×52.1
Net weight	0.54kg	0.73kg	1.18kg	0.54kg	0.73kg	1.18kg

1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system.

Accessories (optional)

PC

CC-USB-RS485-150U-4LLT

EPEVER can provide many accessories to meet different applications.

Please contact sales for more accessories information.

Tracer-LPLI
Solar Controller & LED Driver

10-20A,12/24VDC

Overview:

Tracer-LPLI series MPPT solar charge controller combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed. This series adopts the advanced MPPT (Maximum Power Point Tracking) charging methods which will result up to 30% charging efficiency increase compared with the PWM charge controllers.

Features:

*MPPT charging mode
*Support lead-acid and lithium-ion batteries
*Lithium battery self-activating function
*Advanced intelligent power derating function
*Multiple load control modes
*Automatic load test feature during installation
*Extensive electronic protection
*Infrared wireless communication design
*IP68 Ingress protection(1.5 meters, 72h)

Specifications

Model	Tracer1305LPLI	Tracer2606LPLI	Tracer3906LPLI	Tracer5206LPLI	Tracer2610LPLI	Tracer3910LPLI	Tracer5210LPLI
Nominal system voltage	12VDC	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User						
Battery input voltage range	8.5～16VDC	8.5～32VDC	8.5～32VDC	8.5～32VDC	8.5～32VDC	8.5～32VDC	8.5～32VDC
Rated charge current	10A	10A	15A	20A	10A	15A	20A
Rated charge power	130W/12V	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V	130W/12V 260W/24V	200W/12V 400W/24V	260W/12V 520W/24V
Max. output current	3.3A	3.3A	4.5A	6.6A	3.3A	4.5A	6.6A
Max. output power	100W	100W	130W	200W	100W	130W	200W
Max. PV open circuit voltage	50V(Min. Temp.) 45V(25℃)	60V(at minimum operating environment temperature) 46V(at 25℃ environment temperature)			100V(at minimum operating environment temperature) 92V(at 25℃ environment temperature)		
MPP voltage range	(Battery voltage+2V)～36V				(Battery voltage+2V)～72V		
Output voltage range	(Max. batteryv oltage+2V)～46V	(Max. battery voltage+2V)～58V	(Max. battery voltage+2V)～58V	(Max. battery voltage+2V)～58V	(Max. battery voltage+2V)～58V	(Max. battery voltage+2V)～58V	(Max. battery voltage+2V)～58V
Output current control accuracy	⩽2%						
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	⩽15mA/12V;⩽22mA/24V						
Temperature compensation (for lead-acid battery)	-3mV/℃/2V (Default)						
Enclosure	IP68(1.5m,72h)						
Communication interface	IR						
Operating temperature range	-40℃～+60℃						
Dimensions(LxWxH)(mm)	124×89×30	124×89×30	150×93.5×32.7	153×105×52.1	124×89×30	150×93.5×32.7	153×105×52.1
Net weight	0.52kg	0.52kg	0.71kg	1.18kg	0.52kg	0.71kg	1.18kg

1. The controlller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system.

Accessories (optional)

RC-10
IR Remote Controller

We can provide many series, many models of PWM solar charge controllers

Adopting PWM pulse width modulation technology, EPEVER PWM solar controller can work within the environment temperature at full load. Complete electronic protections ensure the power generation revenue and reduce the input and maintenance cost. Different power and size PWM solar controllers can meet various power needs and provide safer electricity.

EPEVER PWM Solar Charge Controllers Benefits

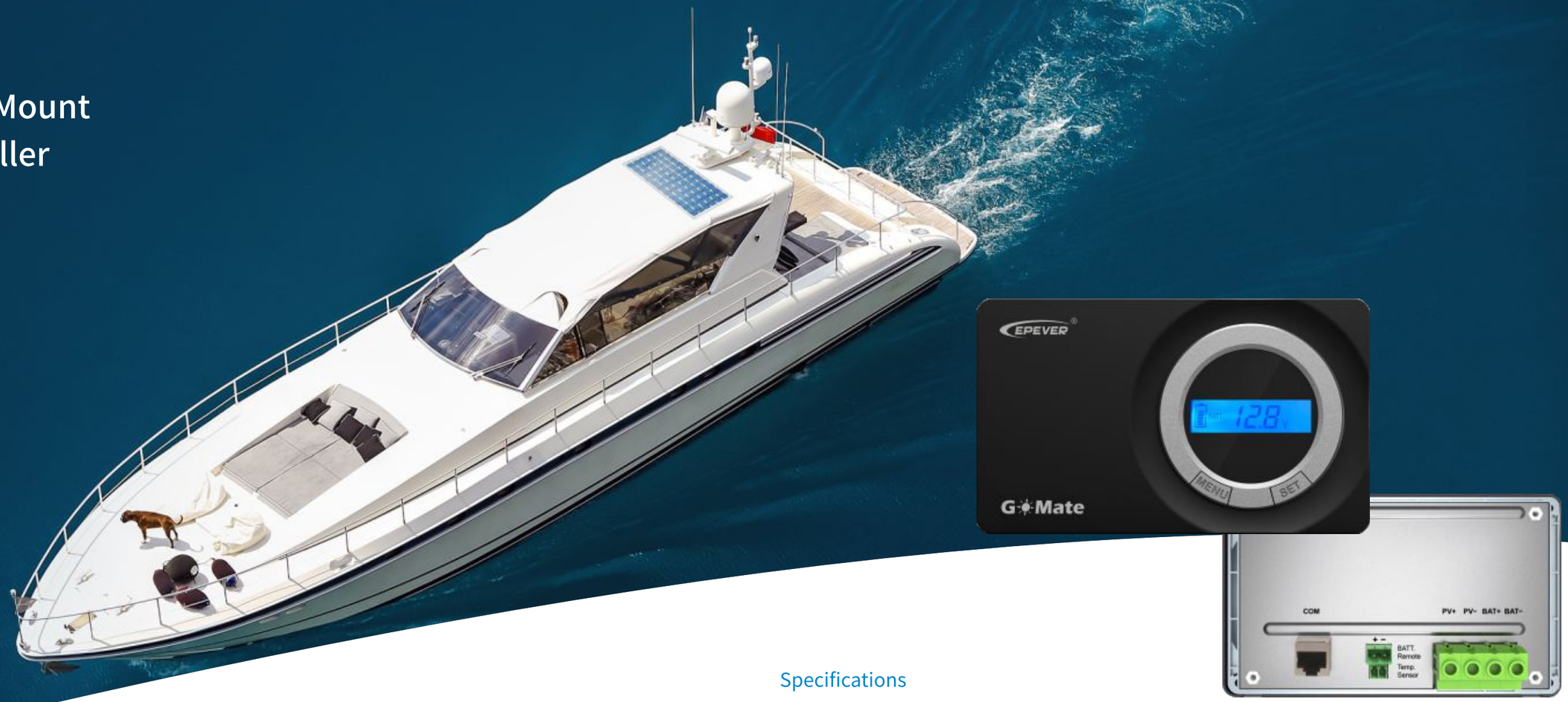
-High efficiency PWM charging
-Temperature compensation
-Battery type optional
-Display optional, programmable
-Full encapsulated PCB
-Aluminum housing for better cooling
-Various load working mode
-Extensive Electronic protection
-Long lifespan
-USB output

EPEVER Solar Charge Controllers Benefits-So Much More

- More Energy
- Smart Energy Management
- Safe and Reliable
- Easy Installation
- Continuous Operation
- High Efficiency

GoMate Flush Mount Charge Controller

30A,12/24VDC



Overview:

GoMate is a 30A negative-ground, flush mount solar charge controller, designed for an aesthetically clean and integrated look on RV and Vessel. The GoMate adopts highly efficient PWM charging mode also comes equipped with special LCD display to show the real-time operating status of the system. The RS485 is used to communicate with the EPEVER WIFI module, Bluetooth adapter, and PC software.

Features:

*Flush mounted and embedded installation design
*3-Stage Intelligent PWM charging: Bulk, Boost/Equalize, and Float
*Battery type: Sealed, Gel, Flooded, and User
*Real-time energy statistics feature
*Battery temperature compensation feature
*Digital LCD monitor for informative display of operational parameters and fault messages
*Voltage drop and temperature compensation sampling interface design
*RS485 communication port with Modbus protocol, and short circuit protection for 5V/200mA power supply
*Rated charging current at working temperature without de-rating
*Extensive electronic protections
*Monitor and set the parameters via PC software or APP

Specifications

Model	GM3024N
Nominal system voltage	12/24VDC/Auto
Battery type	Sealed(Default)/Gel/Flooded/User
Battery input voltage range	8V～32V
Rated charge current	30A
Max. PV open circuit voltage	50V
Equalization voltage	Sealed:14.6V,Flooded:14.8V
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V
Float voltage	Gel/Sealed/Flooded:13.8V
Self-consumption	≤4.2mA/12V;≤2.6mA/24V
Temperature compensation	-3mV/℃/2V(Default)
Operating temperature range	-20℃～+55℃
Relative humidity	≤95%, N.C.
Enclosure	IP30
Communication interface	RS485(RJ45)
Grounding	Common negative
Dimensions(LxWxH)(mm)	178.5×105.5×48.3
Net Weight	0.31kg

LS-B Solar Charge Controller

10-30A,12/24VDC

Overview:

LS-B series is a common positive PWM charge controller. Thanks to the RS485 interface. The parameters can be configured via com. Port, APP, and PC software. It is widely applied to solar home systems, and surveillance system, etc.

Features:

*Series PWM charging mode

*Multiple load control modes

*Full load operation within the working temperature range

*Extensive electronic protection

*Variety optional accessories

*Standard Modbus communication protocol with RS485 interface

Specifications

Model	LS1024B	LS2024B	LS3024B
Nominal system voltage	12/24VDC/Auto		
Battery type	Sealed(Default)/Gel/Flooded/User		
Battery input voltage range	8～32V		
Rated charge current	10A	20A	30A
Rated discharge current	10A	20A	30A
Max. PV open circuit voltage	50V		
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	⩽8.4mA/12V;⩽7.8mA/24V		
Temperature compensation	-3mV/°C/2V (default)		
Relative humidity	⩽95% (N.C.)		
Enclosure	IP30		
Communication interface	RS485(RJ45)		
Grounding	Common Positive		
Operating temperature range	-35°C～50°C		
Dimensions(LxWxH)(mm)	138.6×69.3×37	159.6×81.4×47.8	200.6×101.3×57
Net Weight	0.13kg	0.30kg	0.50kg

LS-EPD Solar Charge Controller

10-20A,12/24VDC

Overview:

LS-EPD series adopts a digital tube menu control design. The waterproof design is mainly considered to be used in harsh environments. It is widely applied to folding panels, outdoor camping, field automatic detection equipment, traffic lights, solar street lights, courtyard light systems, etc.

Features:

*Series PWM charging mode

*Multiple load control modes

*Extensive electronic protection

*Battery type: sealed battery

*LED indicators for situation indication and programming

*Fully encapsulated PCB, IP67 protection

*Adopt high-quality international brand components

Specifications

Model	LS1024EPD	LS2024EPD
Nominal system voltage	12/24VDC Auto	
Battery type	Sealed battery	
Battery input voltage range	8～32V	
Rated charge current	10A	20A
Rated discharge current	10A	20A
Max. PV open circuit voltage	50V	
Equalization voltage	14.8V(12V);29.6V(24V)	
Boost voltage	14.4V(12V);28.8V(24V)	
Float voltage	13.7V(12V);27.4V(24V)	
Low voltage reconnect voltage	12.6V(12V);25.2V(24V)	
Low voltage disconnect voltage	11.2V(12V);22.4V(24V)	
Self-consumption	12V:⩽4.58mA；24V:⩽6.01mA	
Temperature compensation	-5mA/°C/2V(25°C)	
Enclosure	IP67	
Grounding	Common Positive	
Operating temperature range	-35°C～+50°C	
Dimensions(LxWxH)(mm)	108.5×75×25.6	
Net Weight	410g	435g

VS-AU Solar Charge Controller

10-60A,12/24VDC,
30-60A,12/24/36/48VDC

Overview:

VS-AU series is a PWM charge controller with LCD display and two USB ports. When the gap between solar panel working voltage and battery voltage is not big, choosing this PWM series is an equally reliable but more cost-effective solution. It is widely applied to rural Electrification and home power systems etc.

Features:

*Series PWM charging mode

*Full power working at a working temperature range

*Multiple load control modes

*Adopt high quality, high-reliability international brand components

*Double USB design

*Segment LCD display design

*Real-time energy statistics function

*Extensive electronic protection

Specifications

Model	VS1024AU	VS2024AU	VS3024AU	VS3048AU	VS4524AU	VS4548AU	VS6024AU	VS6048AU
Nominal system voltage	12/24VDC Auto	12/24VDC Auto	12/24VDC Auto	12/24/36/48VDC Auto	12/24VDC Auto	12/24/36/48VDC Auto	12/24VDC Auto	12/24/36/48VDC Auto
Battery type	Sealed(Default)/Gel/Flooded							
Battery input voltage range	9V～32V	9V～32V	9V～32V	9V～64V	9V～32V	9V～64V	9V～32V	9V～64V
Rated charge current	10A	20A	30A	30A	45A	45A	60A	60A
Rated discharge current	10A	20A	30A	30A	45A	45A	60A	60A
Max. PV open circuit voltage	50V	50V	50V	96V	50V	96V	50V	96V
Equalization voltage	Sealed:14.6V,Flooded:14.8V							
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V							
Float 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	≤9.2mA/12V;≤11.7mA/24V;≤14.5mA/36V;≤17mA/48V							
USB output	5VDC/2.4A(Total)							
Temperature compensation	-3mV/℃/2V（25℃）							
Relative humidity	≤95%, N.C.							
Enclosure	IP30							
Grounding	Common Positive							
Operating temperature range	-25℃～+55℃							
Dimensions(LxWxH)(mm)	142×85×41.5	160×94.9×49.3	181×100.9×59.8	181×100.9×59.8	194×118.4×63.8	194×118.4×63.8	214x128.7x72.2	214x128.7x72.2
Net Weight	0.22kg	0.35kg	0.55kg	0.58kg	0.76kg	0.88kg	1.02kg	1.04kg

VS-BN Solar Charge Controller

10-60A,12/24VDC,
45-60A,12/24/36/48VDC

Overview:

VS-BN series is the PWM charge controller with dot matrix LCD display and RS485 communication interface. It is widely applied to off-grid system which needs high reliability and quality products, such as small power systems, mobile lighting, monitoring system, etc.

Features:

*Series PWM charging mode

*Dot-matrix LCD display, integrated menu display, and operation

*Excellent EMC design

*Multiple load control modes

*Real-time energy statistics

*Extensive electronic protection

*Real-time data monitoring and parameters setting

*Standard Modbus communication protocol with RS485 interface

Specifications

Model	VS1024BN	VS2024BN	VS3024BN	VS4524BN	VS6024BN	VS4548BN	VS6048BN
Nominal system voltage	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24/36/48VDC/Auto	12/24/36/48VDC/Auto
Battery type	Sealed(Default)/Gel/Flooded/User						
Battery input voltage range	8V～32V	8V～32V	8V～32V	8V～32V	8V～32V	8V～64V	8V～64V
Rated charge current	10A	20A	30A	45A	60A	45A	60A
Rated discharge current	10A	20A	30A	45A	60A	45A	60A
Max. PV open circuit voltage	48V	48V	48V	48V	48V	96V	96V
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	≤15mA@12V; ≤13mA@24V; ≤9mA@36V; ≤8mA@48V						
Temperature compensation	-3mV/°C/2V (Default)						
Relative humidity	≤95%(N.C.)						
Enclosure	IP30						
Communication interface	RS485(RJ45)						
Grounding	Common negative						
Operating temperature range	-25°C～+55°C						
Dimensions(LxWxH)(mm)	162×87×39.5	162×102×49.5	200.6×105.8×57.7	200.6×111.8×58.6	204.8×131.9×67	204.8×122×66.6	204.8×173.9×63.8
Net Weight	0.3Kg	0.4Kg	0.7Kg	0.8Kg	1.3Kg	1.2Kg	1.6Kg

LS-E/EU Solar Charge Controller

5-30A,12VDC,
5-30A,12/24VDC

Overview:

LS-E/EU series is a reliable, stable, and economical solar charge controller, easy to operate. Based on the LS-E series, the LS-EU series adds a +5V/1.2A USB terminal output which can charge mobile phones, power DC fans, and other DC electronic devices.

Features:

*Series PWM charging mode

*LED indicator indicates battery situation

*Battery temperature compensation function

*Extensive electronic protection

*USB ports available (LS-EU series only)

*User-friendly design buttons

*Industrial quality standard design

Specifications

Model	LS1024E	LS2024E	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS3024EU
Nominal system voltage	12/24VDC Auto	12/24VDC Auto	12VDC	12VDC	12/24VDC Auto	12/24VDC Auto	12/24VDC Auto
Battery type	Sealed(Default)/Gel/Flooded						
Battery input voltage range	8～32V	8～32V	8～16V	8～16V	8～32V	8～32V	8～32V
Rated charge current	10A	20A	5A	10A	10A	20A	30A
Rated discharge current	10A	20A	5A	10A	10A	20A	30A
Max. PV open circuit voltage	50V	50V	30V	30V	50V	50V	50V
Equalization voltage	Sealed:14.6V,Flooded:14.8V						
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V						
Float 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	12V≤5mA; 24V≤7mA						
Temperature compensation	-5mV/°C/2V						
Relative humidity	≤95%,(N.C.)						
Enclosure	IP30	IP30	IP20	IP20	IP20	IP20	IP20
Grounding	Common Positive						
Operating temperature range	-35°C～50°C						
Dimensions(LxWxH)(mm)	101.2×67×21.8	128×85.6×34.8	109.7×65.5×20.8	120.3×67×21.8	120.3×67×21.8	148×85.6×34.8	148×106.8×43.7
Weight	0.08kg	0.15kg	0.09kg	0.10kg	0.10kg	0.18kg	0.29kg

LS-LPLW 2.4G Communication Solar Controller&LED Driver

10-20A,12/24VDC

Overview:

LS-LPLW series is PWM solar charge controller that combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed. It adopts the 2.4G wireless communication method, to enable cross-obstacle communication when the controller is installed inside the LED lamp or the lighting pole.

Features:

*2.4G wireless communication design

*PWM charging mode

*Support lead-acid and lithium-ion batteries

*Lithium battery self-activating function

*Intelligent power derating to ensure 365 days lighting on

*Multiple load control modes (Including midnight working mode)

*Ultra-low power consumption mode (4mA)

*Customizing parameter by password verify

*Automatic load test feature during installation

*Ip68 protection class (1.5 meters, 72h)

Specifications

Model	LS101260LPLW	LS2024120LPLW
Nominal system voltage	12VDC	12/24VDC/Auto
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User	
Battery input voltage range	9V～16V	9V～32V
Rated charge current	10A	20A
Max. output power	60W	60W/12V 120W/24V
Max. PV open circuit voltage	30V	50V
Max. output current	4.0A	4.0A
Output voltage range	(Max. Battery Voltage +2V)～60V	(Max. Battery Voltage +2V)～60V
Maximum output efficiency	96%	96%
Output current control accuracy	⩽30mA	
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	⩽19mA(12V)；⩽35mA(24V)	⩽19mA(12V)；⩽35mA(24V)
Enclosure	IP68(1.5m,72h)	IP68(1.5m,72h)
Communication interface	2.4G	2.4G
Operating temperature range	-40°C～+55°C	-40°C～+55°C
Dimensions(LxWxH)(mm)	87x63x24.8	108.5x118x25.6
Net Weight	0.20kg	0.40kg

Accessories (optional)

eBox-WiFi&2.4G-02
WIFI Serial Server

FC-02
Super Parameter Programmer

RC-11
2.4G Remote Controller

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

LS-LPLI Infrared Communication Solar Controller&LED Driver

10-20A,12VDC
10-20A,12/24VDC

Overview:

LS-LPLI series is PWM solar charge controller combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed.

Features:

*Infrared wireless communication design
*PWM charging mode
*Support lead-acid and lithium-ion batteries
*Lithium battery self-activating function
*Intelligent power derating to ensure 365 days lighting on
*Multiple load control modes (including midnight working mode)
*Automatic load test feature during installation
*Extensive electronic protection
*IP68 protection class (1.5 meters, 72h)

Specifications

Model	LS101260LPLI	LS2024120LPLI
Nominal system voltage	12VDC	12/24VDC
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium ($LiFePO_4$/$Li(NiCoMn)O_2$)/User	
Battery input voltage range	9V～16V	9V～32V
Rated charge current	10A	20A
Max. output power	60W	60W/12V 120W/24V
Max. PV open circuit voltage	30V	50V
Max. output Current	4.0A	4.0A
Output voltage range	(Max. Battery Voltage +2V)～60V	(Max. Battery Voltage +2V)～60V
Maximum output efficiency	96%	96%
Output current control accuracy	⩽2%	⩽2%
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	⩽18mA(12V)；⩽23mA(24V)	
Enclosure	IP68(1.5m,72h)	
Communication interface	IR	
Operating temperature range	-40°C～+55°C	
Dimensions(LxWxH)(mm)	87x63x24.8	
Net Weight	0.21kg	

Accessories (optional)

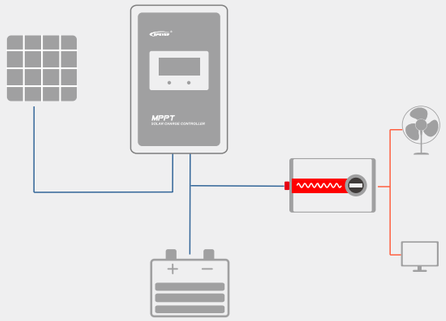
eBox-WiFi&2.4G-02
WIFI Serial Server

FC-01
Super Parameter Programmer

RC-10
IR Remote Controller

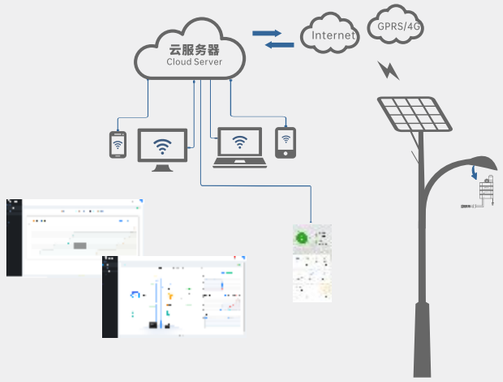
EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information.

EPEVER Solutions



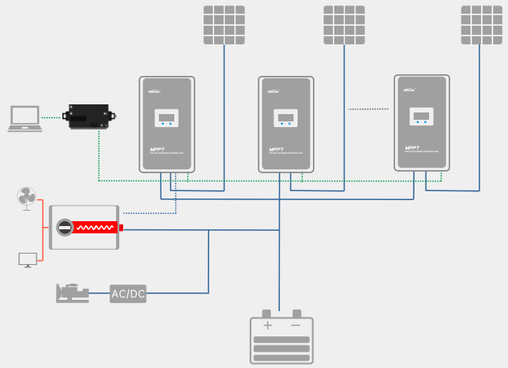
Recommended products

XTRA, Triron, Tracer-AN, Tracer-BN, iTracer, IPower, IPower-Plus, NPower



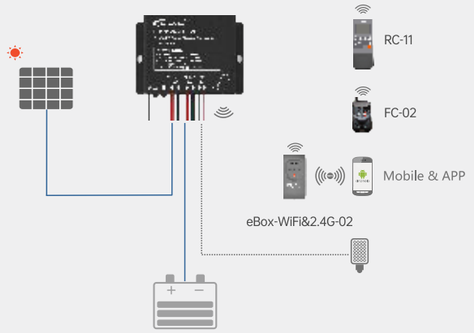
Recommended products

Tracer-BP, Tracer-BPL



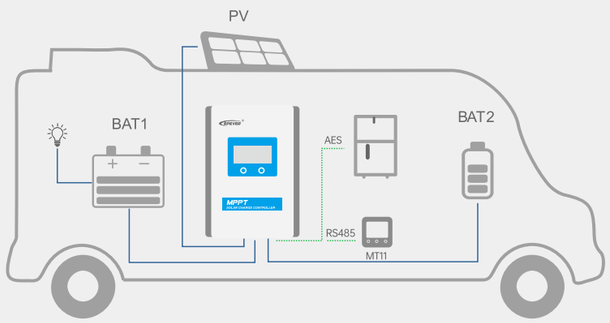
Recommended products

Tracer-AN, IPower, IPower-Plus, PAL-ADP-50A



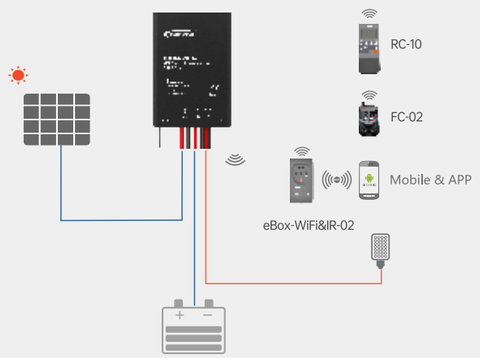
Recommended products

LS-LPLW



Recommended products

DuoRacer,MT11



Recommended products

Tracer-LPLI, LS-LPLI

EPEVER Accessories

Parallel Adapter

PAL-ADP-50AN
Input voltage:5VDC
Dimensions:151.5×69.9×25.7mm
Weight:91.4g

Remote Meter

MT50
Input voltage:5VDC
Dimensions:114×114mm
Weight: 0.32g

Remote Meter

MT75
Input voltage:5VDC
Dimensions:193×95×48mm
Weight: 0.29kg

Remote Meter

MT11
Input voltage:5VDC
Dimensions:114×114mm
Weight:0.11kg

Serial Device Server

EPEVER TCP 306
Input power:5V~36VDC
Dimensions:98.0mmx86.0mmx25.0mm
Weight:205g

WIFI Serial Server

EPEVER WiFi 2.4G RJ45 D
Input power:5VDC
Dimensions:63mm x 19mm x 10mm
Weight:7.7g

IR Remote Controller

RC-10
Input voltage:3VDC
Dimensions:138×58×21mm
Weight:69g

Extension Module

RS485-1M2S
Input voltage:5VDC
Dimensions:121×88×27.5mm
Weight:121.8g

PC Communication Cable

CC-USB-RS485-150U-3.81

PC Communication Cable

CC-USB-RS485-150U-4LLT

Remote Temperature Sensor

RTS300R47K3.81A

PC Communication Cable

CC-USB-RS485-150U