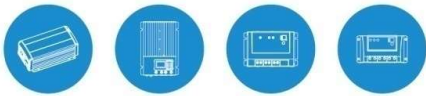
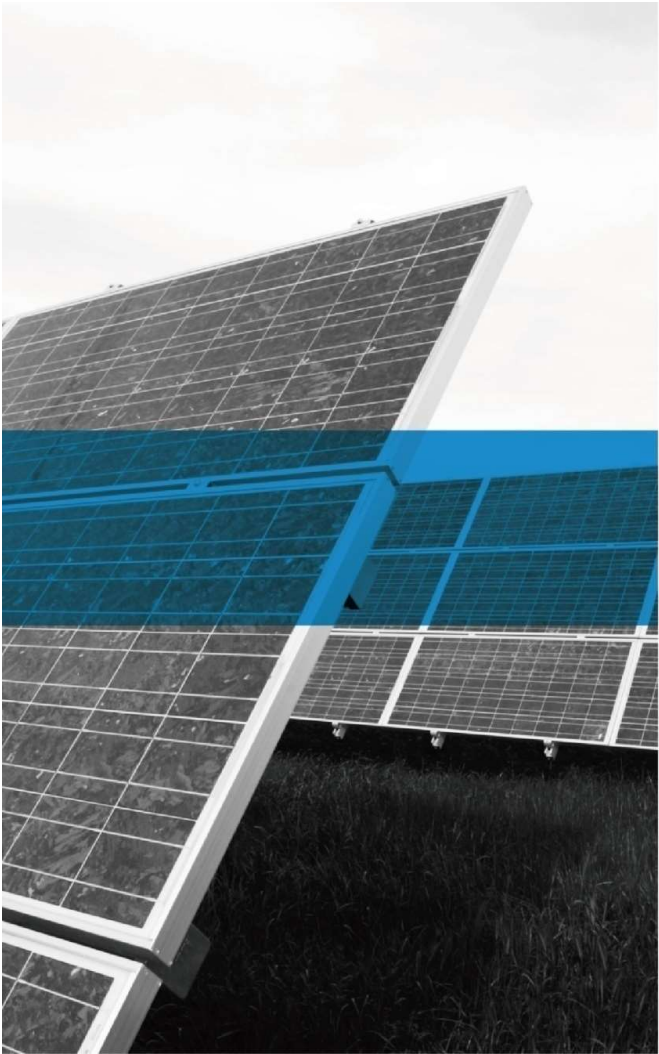


SHANDONG SINOLTECH INTERNATIONAL CO., LTD SINOLTECH ENERGY LIMITED

SOLAR CHARGER CONTROLLER SERIES



COMPANY PROFILE

SINOLTECH ENERGY

SHANDONG SINOLTECH INTERNATIONAL CO., LTD is the subsidiary of SINOLTECH HOLDING GROUP LTD(HK) , focusing on overseas marketing of high quality and advanced solar energy products.

SINOLTECH HOLDING GROUP LTD was firstly established in year 2005, in order to respond and conform to the trend of global environmental protection "low carbon" and "green energy", SINOLTECH starts an independent subsidiary SHANDONG SINOLTECH INTERNATIONAL CO., LTD in year 2017, specializing in research, development, innovation, production and export for high quality solar photovoltaic products with advanced design.

SINOLTECH firstly starts cooperation with EPSOLAR in year 2009, taking charge of the overseas marketing in Europe, North America and Southeast Asia.

Covering a wide range of products include solar charge controllers, off-grid inverter, LED driver and special power units etc.

All the solar charger controller products have passed CGC-SOLAR ,CE ,ROSH, FCC and ETL certificate, as well as other domestic and international authoritative certification and a number of patents.

The products have been extensively applied and highly appraised in a number of major projects at home and abroad.

In 2016, SINOLTECH's supply ability for solar charger controller is 850K pcs, with an annual sales turnover USD 10 Million.

BRAND INTRODUCTION



EP means "Efficient Power", SOLAR means "Solar photovoltaic".



EP means "Efficient Power", EVER means "FOR EVER". The Brand "EPEVER" indicates our firm determination to provide high quality power products, and excellent customer service.



SINOLTECH represents our brand name in general, focusing on sales and marketing of all our products, including solar controller, solar charger, solar lighting, flexible solar panel all series. We offer one stop solar energy solution for clients.



OUR ADVANTAGE

RAPID DEVELOPMENT

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.



ISO9001:2008 ISO14001:2004 RoHS CE FC ETL

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New



Tracer A series MPPT Solar charge controller

10A,20A,30A,40A 12/24V auto work

Tracer A series adopts advanced MPPT technology. It can fast and accurately MPP of photovoltaic array in any situation and obtain the maximum solar energy at any time, which remarkably improves energy efficiency. With Modbus communication protocol interface, it is convenient for user to expand applications and meet monitoring requirements in various fields like telecommunication base station, household system, lighting system etc.

Features:

- Advanced MPPT technology
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed
- Accurately recognizing and tracking MPP of multiple wave crest
- Automatic PV power limit function
- Multi-function LCD displays system information intuitively
- User programmable for battery types, load control etc.
- 3-Stage charge with PWM output
- Common positive grounding design
- RS485 port with industrial standard MODBUS open architecture
- Fully programmable function via remote meter, PC software and Mobile APP.

Application



Electrical parameters	Tracer1210A	Tracer2210A	Tracer3210A	Tracer4210A
Nominal system voltage	12V/24V auto work			
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	30A	40A
MPP voltage range	VBAT+2V~72V			
Max. PV open circuit voltage	100V at minimum operating environment temperature 92V at 25°C environment temperature			
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 520W
	24V 260W	24V 520W	24V 780W	24V 1040W
Self-consumption	≤20mA(12V), ≤16mA(24V)			
Temp. compensation	-3mV/°C/2V			
Grounding	Common positive			
Overall dimension	172x139x44mm	220x154x52mm	228x164x55mm	252x180x63mm
Net weight	0.6kg	1.1kg	1.2kg	1.9kg
Enclosure	IP30			
Working temperature	-25°C ~ +45°C			

Tracer series MPPT Solar charge controller



10A,20A,30A,40A 12/24V auto work

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 product the maximum available power.

Application



Features:

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

Electrical parameters	Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4210RN
Nominal system voltage	12V/24V auto work			
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	20A	20A
Maximum battery voltage	32V			
Max. solar input voltage	Tracer-**10RN : 100V at minimum operating environment temperature 92V at 25°C environment temperature Tracer-**15RN : 150V at minimum operating environment temperature 138V at 25°C environment temperature			
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 500W
	24V 260W	24V 520W	24V 780W	24V 1000W
Self-consumption	≤10mA(24V)			
Temp. compensation	-5mV/°C/2V			
Grounding	Common negative			
Overall dimension	156x97x68mm	169x118x83mm	242x169x91mm	242x169x91mm
Net weight	0.55kg	0.95kg	2kg	2.05kg
Enclosure	IP30			
Working temperature	-35°C ~ +55°C			



Tracer BN series MPPT solar charge controller

10A,20A,30A,40A 12/24V auto work

Tracer-BN Series is a flagship member among all tracer MPPT controllers. We design with very long lifespan industrial materials and die-cast aluminum housing cooling system, to improve the controller's performance and life.

Application



Features :

- Peak conversion efficiency of 98%
- High tracking efficiency $\geq 99.5\%$
- Die-cast aluminum design and nature cooling
- Diversified load control to meet different requirements
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Field upgradable firmware

Model	Tracer1215BN	Tracer2215BN	Tracer3215BN	Tracer4215BN
Nominal system voltage	12/24V auto work			
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	20A	20A
Max. PV open circuit voltage	150V at minimum operating environment temperature 138V at 25°C environment temperature			
Battery input voltage range	8~32V			
Max. PV input power	130W (12V)	260W (12V)	390W (12V)	520W (12V)
	260W (24V)	520W (24V)	780W (24V)	1040W (24V)
Self-consumption	$\leq 50\text{mA}(12\text{V})$ $\leq 27\text{mA}(24\text{V})$			
Grounding	Common negative			
Temp. compensation	$-3\text{mV}/^{\circ}\text{C}/2\text{V}$			
Communication port	RS485 / RJ45 interface			
Overall dimension	196x118x36mm	217x143x56mm	281x160x60mm	303x183x64mm
Net weight	0.9kg	1.5kg	2.3kg	2.9kg
Enclosure	IP30			
Working temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$			



eTracer series MPPT solar charge controller

45A,60A 12/24/36/48V auto work

eTracer is an intelligent, efficient, high-speed solar charge controller with advanced Maximum Power Point Tracking (MPPT) algorithm, which can harvest the maximum power from the solar array to charge battery. It can be applied in the off-grid PV systems up to 3KW, and increase the efficiency up to 30% .

Application



Features :

- High tracking efficiency $\geq 99.5\%$
- Peak conversion efficiency of 98% and full load efficiency of 97%
- Accurately tracking and recognizing MPP among multiple wave crest
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- Energy statistics recording
- Built-in running data and event logging
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Field upgradable firmware

Model	ET4415BND	ET6415BND
Nominal system voltage	12V/24V /36V/48V auto work	
Rated Battery current	45A	60A
Max. PV open circuit voltage	150V at minimum operating environment temperature 138V at 25°C environment temperature	
Battery input voltage range	8~72V	
Max. PV input power	600W (12V)	800W (12V)
	1200W (24V)	1600W (24V)
	1800W (36V)	2400W (36V)
	2400W (48V)	3200W (48V)
Self-consumption	1.4~2.2W	
Grounding	Common negative	
Temp. compensation	-3mV/°C/2V	
Overall dimension	398.6x208x107mm	449x208x107mm
Net weight	4.3kg	5.5kg
Enclosure	IP20	
Working temperature	-25°C ~ +55°C	



iTracer series MPPT controller with load control

30A,45A,60A 12/24/36/48V auto work

iTracer is an intelligent, efficient, high-speed solar charge controller with advanced Maximum Power Point Tracking (MPPT) algorithm, which can harvest the maximum power from the solar array to charge battery. It can be applied in the off-grid PV systems up to 3KW, and increase the efficiency up to 30% .

Application



Features:

- High tracking efficiency $\geq 99.5\%$
- Peak conversion efficiency of 98% and full load efficiency of 97%
- Accurately tracking and recognizing MPP among multiple wave crest
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- Multiple load control modes
- Built-in running data and event logging
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Field upgradable firmware

Model	IT4415ND	IT6415ND
Nominal system voltage	12V/24V /36V/48V auto work	
Rated battery current	45A	60A
Rated load current	45A	60A
Max. PV open circuit voltage	150V at minimum operating environment temperature 138V at 25°C environment temperature	
Battery input voltage range	8~72V	
Max. PV input power	600W (12V)	800W (12V)
	1200W (24V)	1600W (24V)
	1800W (36V)	2400W (36V)
	2400W (48V)	3200W (48V)
Self-consumption	1.4~2.2W	
Grounding	Common negative	
Temp. compensation	-3mV/°C/2V	
Overall dimension	382x231x107mm	440x231x110mm
Net weight	4.6kg	5.9kg
Enclosure	IP20	
Working temperature	-25°C ~ +45°C	

NEW



VS-AU series PWM solar charge controller

10A,20A,30A 12/24V auto work

The VS-AU controller is a PWM charge controller with built in LCD display that adopts the most advanced digital technique. The multiple load control modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.

Application



Features:

- 3-Stage intelligent PWM charging: Bulk, Boost/Equalize, Float
- Support 3 charging options: Sealed, Gel, and Flooded
- LCD display design, dynamically displaying device's operating data and working condition
- Double USB design, the power supply charge for electronic equipment
- With humanized button settings, operation will be more comfortable and convenient
- Multiple load control modes
- Energy statistics function
- Extensive Electronic protection

Model	VS1024AU	VS2024AU	VS3024AU
Nominal system voltage	12/24V auto work		
Rated charge current	10A	20A	30A
Rated discharge current	10A	20A	30A
Battery input voltage range	9~32V		
Max. PV open circuit voltage	50V		
Self-consumption	≤9.2mA(12V); ≤12.6mA(24V)		
Grounding	Common positive		
Temp. compensation	-3mV/°C/2V		
Overall dimension	142x85x41.5mm	160x94.9x49.3mm	181x100.9x59.8mm
Terminals	4mm ²	10mm ²	16mm ²
Net weight	0.22kg	0.35kg	0.56kg
Enclosure	IP30		
Working environment temperature	-20°C~+55°C		

NEW



VS-A series PWM solar charge controller

10A,20A,30A 12/24V auto work

VS-A series is common positive controller with LCD display, adopting the most advanced digital technique, high cost performance.

Application



Features:

- PWM charging
- Battery type selection: Sealed, Gel, Flooded
- Multi-function LCD displays system information intuitively
- Multiple load control modes
- Energy statistics function
- Optional RTS for accurate temperature compensation
- Extensive electronic protection

Model	VS1024A	VS2024A	VS3024A
Nominal system voltage	12/24V auto work		
Rated battery current	10A	20A	30A
Rated load current	10A	20A	30A
Battery input voltage range	9~32V		
Max. PV open circuit voltage	50V		
Self-consumption	≤8.1mA(12V);≤6.5mA(24V)		
Grounding	Common positive		
Temp. compensation	-3mV/°C/2V		
Overall dimension	132x84.6 x39.7mm	149x94.1x46.1mm	177.5x106.6x46.2mm
Terminals	4mm ²	16mm ²	16mm ²
Net weight	0.18kg	0.26kg	0.33kg
Enclosure	IP30		
Working environment temperature	-25°C~+45°C		



VS-BN series PWM solar charge controller

10A,20A,30A,45A,60A 12/24V auto work

20A,30A,45A,60A 12/24/36/48V auto work

This VS-BN series is common negative controller, with LCD display, working data programmable, It has communication function via RS485 port to PC monitoring software, realizing real-time monitoring and battery management parameter setting.

Application



Features:

- Battery type selection: Sealed, Gel, Flooded, and User (programmable)
- Intelligent lighting and timer control for solar lighting system
- Full control parameters setting and modification, diversified load control mode
- Humanized design of browser interface
- Adopt graphics dot-matrix LCD screen and 4 buttons for integrated menu displaying and operation
- Real-time energy statistics
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Support firmware upgrade

Model	VS1024BN	VS2024BN VS2048BN	VS3024BN VS3048BN	VS4524BN VS4548BN	VS6024BN VS6048BN
Rated battery current	10A	20A	30A	45A	60A
Rated load current	10A	20A	30A	45A	60A
Nominal system voltage	VS**24BN 12/24V auto work, VS**48BN 12/24/36/48V auto work				
Max. battery voltage	12/24V 34V, 12/24/36/48V 64V				
Self-consumption	≤15mA(12V); ≤10mA(24V); ≤9mA(36V); ≤8mA(48V)				
Grounding	Common negative				
Temp. compensation	-3mV/°C/2V				
Overall dimension (mm)	162x85x40	162x100x50	200x103x58	201x109x59	205x129x67
		200x103x58	201x109x59	205x119x67	205x174x64
Net weight	0.4kg	0.4kg	0.7kg	0.9kg	1.3kg
		0.7kg	0.9kg	1.2kg	1.5kg
Enclosure	IP30				
Working temperature	-35°C ~ +55°C				

LandStar E series PWM solar charge controller



5A,10A,20A 12V/24V

LS-E series is reliable, stable, and economical solar charge controller, easy for operation.

Application



Features:

- PWM charging
- Use MOSFET as electronic switch
- Intuitive LED indicators showing battery voltage status
- Battery type selection: Gel, Sealed, and Flooded
- Manual control the output of the load
- Temperature compensation
- Industrial grade design

Model	LS0512E	LS1012E	LS1024E	LS2024E
Rated battery current	5A	10A	10A	20A
Rated load current	5A	10A	10A	20A
Nominal system voltage	12V	12V	12/24V auto work	12/24V auto work
Battery input voltage range	8~16V	8~16V	8~32V	8~32V
Self-consumption	≤6mA			
Grounding	Common positive			
Temp. compensation	-5mV/°C/2V			
Overall dimension	92.8x65x20.2mm	101.2x67x21.8mm	101.2x67x21.8mm	128x85.6x34.8mm
Net weight	74g	82.5g	82g	151.6g
Enclosure	IP30			
Working temperature	-35°C ~ +55°C			

USB output



LandStar EU series PWM solar charge controller

5A,10A,20A,30A 12V/24V

LS-EU series is reliable, stable, and economical solar charge controller, easy for operation.

USB output can charge mobile phone, DC fans, and other DC electronic device.

Application



Features:

- With USB port
- PWM charging
- Use MOSFET as electronic switch
- Intuitive LED indicators showing battery voltage status
- Battery type selection: Gel, Sealed, and Flooded
- Manual control the output of the load
- Temperature compensation
- Industrial grade design

Model	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS3024EU
Rated battery current	5A	10A	10A	20A	30A
Rated load current	5A	10A	10A	20A	30A
Nominal system voltage	12V	12V	12/24V auto work	12/24V auto work	12/24V auto work
Battery input voltage range	8~16V	8~16V	8~32V	8~32V	8~32V
Self-consumption	12V≤5mA; 24V≤7mA				
Grounding	Common positive				
Temp. compensation	-5mV/°C/2V				
USB output	5VDC/1.2A				5VDC/2A
Overall dimension (mm)	109.7x65.5x20.8	120.3x67x21.8	120.3x67x21.8	148x85.6x34.8	148x106.8x43.7
Net weight	95g	103g	102g	179.6g	290g
Enclosure	IP20				
Working temperature	-35°C ~ +55°C				

LandStar B series PWM solar charge controller



10A,20A,30A 12/24V auto work

Landstar B series controller with high reliability, accuracy of sampling and full electronic protection. Programmable via remote meter MT50 ,PC software and APP.

Application



Features :

- PWM charging
- Three LEDs shows PV charging, battery and load status
- Optional RTS for accurate temperature compensation
- RS485 port with industrial standard MODBUS open architecture
- Multiple load working modes: Manual Control, Light ON/OFF, Light On+Timer and Time Control
- Battery type selection: Sealed, Gel, Flooded and User(programmable)
- Battery temperature compensation
- Real-time energy statistics
- RS485 port with industrial standard MODBUS open architecture
- Real-time data monitoring and parameters setting with MT50, APP or PC software
- Support firmware upgrade

Model	LS1024B	LS2024B	LS3024B
Rated battery current	10A	20A	30A
Rated load current	10A	20A	30A
Nominal system voltage	12/24V auto work		
Battery input voltage range	8~32V		
Self-consumption	≤8.4 mA/12V; ≤7.8mA/24V		
Grounding	Common positive		
Temp. compensation	-3mV/°C/2V		
Overall dimension	138.6x69.3x37mm	159.6x81.4x47.8mm	200.6x 101.3x57mm
Net weight	0.13kg	0.3kg	0.5kg
Enclosure	IP30		
Working temperature	-35°C ~ +50°C		



LS-BP series PWM solar charge controller

10A,20A 12/24V auto work

New LandStar series is Epsolar's new generation programmable solar charge controller. Fully encapsulated PCB, IP67 design, aluminum case ensures the controller can work in extremely terrible, and increase system operation, reliability and efficiency.

Application



Features :

- High efficient Series PWM charging, increase the battery lifetime and improve the solar system performance.
- Use MOSFET as electronic switch, without any mechanical switch.
- Multiple load control modes, increase the flexibility of the load output
- Gel, Sealed, Flooded and user-defined battery type option.
- New SOC method of calculating accurately displays the available battery capacity.
- The control function and the switch condition of the load can be modified by communication connection.
- Use of standard Modbus communication protocol for TTL-232 bus connections
- Support firmware upgrade
- Fully encapsulated PCB, IP67 protection
- Aluminum housing

Model	LS1024BP	LS2024BP
Rated battery current	10A	20A
Rated load current	10A	20A
Nominal system voltage	12/24V auto work	
Max. battery voltage	34V	
Self-consumption	≤8.4 mA/12V; ≤7.8mA/24V	
Grounding	Common positive	
Temp. compensation	-3mV/°C/2V	
Overall dimension	108.5x64.5x25.6mm	139x 76.5x28mm
Net weight	0.4kg	0.6kg
Enclosure	IP67	
Working temperature	-35°C ~ +55°C	



LandStar series PWM solar charge controller

5A,10A,20A 12V/24V

Light and timer control

LandStar series solar charge controller that adopts the most advanced digital technique and operates fully automatically. Light and timer control (Single timer and dual timer optional) Ideal for public lighting area, such as street light, path way, garden lights, parking area, bus station etc.

Application



Features:

- High efficient Series PWM charging
- Use MOSFET as electronic switch
- Widely used, automatically recognize day/night
- Digital LED menu with simple setting and easy using
- Intelligent timer function with 1-15 hours option
- Gel, Sealed and Flooded battery type option
- Temperature compensation

Model	LS0512R	LS1024R	LS2024R
Rated battery current	5A	10A	20A
Rated load current	5A	10A	20A
Nominal system voltage	12V	12/24V auto work	
Max. battery voltage	16V	32V	
Self-consumption	≤6mA		
Grounding	Common positive		
Temp. compensation	-5mV/°C/2V		
Overall dimension	97x66x25mm	140x65x34mm	144x 75x45mm
Net weight	0.05kg	0.15kg	0.25kg
Enclosure	IP30		
Working temperature	-35°C ~ +55°C		

LS-EPD series PWM solar charge controller



10A,20A 12/24V auto work

Light and timer control, Waterproof, IP67

LS-EPD series solar charge controller is an affordable waterproof charge controller with automatic lighting control function, ideal for extreme environments with corrosion, dust, moisture etc.

Application



Features:

- PWM charging
- For sealed battery charging
- Temperature compensation function
- Automatic lighting control
- LED indicators for PV and battery status
- Digital tube menu, only one key solve all settings simply
- Intelligent timer function with 1~13 hours option
- Fully encapsulated PCB, IP67 protection

Model	LS1012EPD	LS1024EPD	LS2024EPD
Rated battery current	10A	10A	20A
Rated load current	10A	10A	20A
Nominal system voltage	12V	12/24V auto work	
Max. PV input voltage	30V	50V	50V
Self-consumption	12V: ≤4.58mA; 24V: ≤6.01mA		
Grounding	Common positive		
Temp. compensation	-5mV/°C/2V		
Overall dimension	108.5×75×25.6mm		
Net weight	408g	410g	435g
Enclosure	IP67		
Working temperature	-35°C ~ +55°C		



LandStar series PWM solar charge controller

10A,20A 12/24V auto work
Surfacing mounting, Manual ON/OFF

All the terminals backwards. Ideal for surfacing mounting solar system, such as solar home system, portable solar system.

Application



Features:

- Surfacing mounting
- High efficient Series PWM charging
- Gel, Sealed and Flooded battery type option
- Select battery type by jumper, simple and practical
- LED indicator shows battery level, direct and convenient
- Use MOSFET as electronic switch
- Temperature compensation
- Electronic protection: over charging, over discharging, overload, short circuit , and overheating
- Reverse protection: any combination of solar module and battery

Model	LS1024S	LS2024S
Rated battery current	10A	20A
Rated load current	10A	20A
Nominal system voltage	12/24V auto work	
Max. battery voltage	32V	
Self-consumption	≤6mA	
Grounding	Common positive	
Temp. compensation	-5mV/°C/2V	
Overall dimension	120x68x40mm	128x 87x48mm
Net weight	0.15kg	0.25kg
Enclosure	IP30	
Working temperature	-35°C ~ +55°C	



EP series

PWM solar charge controller

10A,12/24V auto work

EP series is economic controller for solar home system and other small solar systems. All the electronic components are industrial grade without any mechanical switch. The electronic protections ensure the reliability of system.

Application



Features:

- Intelligent System Optimum Control
- 12/24V auto work
- High efficient Series PWM charging with temperature compensation
- Use MOSFET as electronic switch, without any mechanical switch
- Load and battery status indicators
- Electronic protection: over charging, over discharging, overload, and short circuit

Model	EPRC10-EC
Rated battery current	10A
Rated load current	10A
Nominal system voltage	12/24V auto work
Self-consumption	≤6 mA
Grounding	Common positive
Temp. compensation	-5mV/°C/2V
Overall dimension	140 x89 x27mm
Net weight	0.23kg
Enclosure	IP30
Working temperature	-35°C ~ +55°C

EPIPDB-COM series Dual battery solar controller



10A, 20A 12/24V auto work

EPIPDB-COM is dual battery charge controller for caravans, RVs, boats and golf cart etc. Two batteries charging eliminate the extra cost of two separate solar charging systems.

Application



Features :

- Two battery charging eliminates the extra cost of two separate solar charging system
- Intelligent System Optimum Control
- 12/24V auto work
- Battery type selection
- Charging frequency optional
- High efficient Series PWM charging
- Local external temperature compensation
- Remote temperature sensor optional
- Use MOSFET as electronic switch, without any mechanical switch
- Remote meter MT-1 optional
- Electronic protection: over charging, short circuit, battery reverse polarity protection

Model	EPIPDB-COM
Rated battery current	10A,.20A
Rated load current	12/24V auto work
Nominal system voltage	≤6 mA
Self-consumption	Common positive
Grounding	-5mV/°C/2V
Temp. compensation	153 x76 x37mm
Overall dimension	0.24kg
Net weight	IP30
Enclosure	-35°C ~ +55°C

MPPT



Tracer-EPLI series MPPT Solar Charge Controller & LED Driver

TRACER-EPLI series combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting requiring dimmer function. The control parameter can be programmed by Mobile APP and SPP-02 via infrared(IR) communication

Features:

- High tracking efficiency $\geq 99.5\%$
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Accurately recognizing and tracking MPP of multiple wave crest
- Digital precision constant current control
- Maximum output efficiency of 96%
- Output current adjustable
- Flexible dimming function(0-100%)
- Real-time energy statistics function
- Easy to check system working status via Mobile APP

Model	Tracer1305EPLI	Tracer2606EPLI	Tracer3906EPLI	Tracer5206EPLI
		Tracer2610EPLI	Tracer3910EPLI	Tracer5210EPLI
Nominal system voltage	12V	12/24V auto work		
Rated charge current	10A	10A	15A	20A
Rated charge power	130W	130W/12V 260W/24V	195W/12V 390W/24V	260W/12V 520W/24V
Max. PV open voltage	50V(Min.Temp.) 45V(25°C)	Tracer***06EPLI:60V(at Min. operating environment temp.) Tracer**10EPLI:46V (at 25°C environment temp.)		
MPP Voltage range	Tracer**05/06EPLI: (Vbat +2V)~36V, Tracer**10EPLI:(Vbat +2V)~72V			
Max. output current	3.3A	3.3A	4.5A	6.6A
Max. output power	100W	100W	130W	200W
Maximum output efficiency	96%			
Self-consumption	≤15mA(12V);≤22mA(24V)			
Temp. compensation	-3mV/°C/2V			
Communication	IR communication			
Overall dimension	124x89 x30mm		150x93.5x32.7mm	153.3x105x52.1mm
Net weight	0.51kg	0.52kg	1.19kg	1.19kg
Enclosure	IP68(1.5m,72h)			
Working environment temperature	-40°C~+60°C			

PWM



LS-EPLI series Solar Charge Controller & LED Driver

LS-EPLI series combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting requiring dimmer function. The control parameter can be programmed by Mobile APP and SPP-02 via infrared(IR) communication.

Features:

- Battery type selection: Sealed, Gel, Flooded and User(programmable).
- Maximum output efficiency of 96%
- Output current adjustable
- Flexible dimming function(0-100%)
- Digital precision constant current control
- Real-time energy statistics function
- Battery temperature compensation function
- Fully encapsulated PCB, IP68 protection
- Aluminum housing for better cooling
- Easy to check system working status via Mobile APP

Model	LS101240EPLI	LS102460EPLI	LS2024100EPLI
Nominal system voltage	12V	12/24V	12/24V
Rated charge current	10A	10A	20A
Max. PV input voltage	30V	50V	50V
Rated output power	40W	30W/12V, 60W/24V	50W/12V, 100W/24V
Battery terminal voltage	9~16V	9~32V	9~32V
Rated output power	60W	100W	200W
Rated output current	2.6A	2.0A	3.3A
Self-consumption	12V:≤9.1mA; 24V:≤7.0mA		
Overall dimension	108.5x100.5x25.6mm	108.5x100.5x25.6mm	108.5x118x25.6mm
Net weight	0.23kg	0.23kg	0.28Kg
Enclosure	IP68		
Working temp.	-35℃~+55℃		

Lithium
battery



LS-LPLI series Solar Charge Controller & LED Driver

The LS-LPLI series solar charge controller combines the solar charge controller and LED constant current driver into one unit which is ideal for solar LED Lighting, especially for the application for LED lamp which requires dimmer function. The advanced pulse width modulation charging methods enables the system charging and discharging management to obtain the most radical optimization. Make the system cost reduce, and increase the system flexibility.

Features :

- Apply to lithium battery
- Lithium battery self-activating function
- Lithium battery low temperature protection function
- Load reduce power automatically
- Battery type selection: LiFePO4, Li-NiCoMn and User (programmable)
- Maximum output efficiency of 96%
- Output current adjustable
- Flexible dimming function (0~100%)
- Real-time energy statistics function
- Parameter setting via mobile APP(android only), RC-02 and SPP-02

Model	LS101240LPLI	LS102460LPLI	LS2024100LPLI
Nominal system voltage	12V	12/24V auto work	
Battery input voltage range	9~16V	9~32V	
Max. PV open circuit voltage	30V	50V	50V
Rated charge current	10A	10A	20A
Max. output power	40W	30W/12V, 60W/24V	50W/12V, 100W/24V
Max. output current	2.6A	2.0A	3.3A
Max. output efficiency	96%		
Output voltage range	(Max. battery voltage+2V)~60V		
Load open circuit voltage	60V		
Self-consumption	≤18mA(12V); ≤23mA(24V)		
Battery Type	LiFePO4/ Li-NiCoMn /User		
Communication	IR communication		
Overall dimension	107x68x20mm	108.5x88x25.6mm	
Net weight	0.23kg	0.39kg	
Enclosure	IP68		
Working environment temperature	-35℃~~+55℃		



LS-BPL series Solar Charge Controller & LED Driver

LS-BPL series combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting requiring dimmer function. The control parameter can be programmed by Mobile APP ,SPP-02 and PC software.

Features :

- Battery type selection: Sealed, Gel, Flooded and User(programmable).
- Flexible dimming function(0-100%)
- Battery temperature compensation
- Digital precision constant current control
- Maximum output efficiency of 96.7%
- Output current adjustable
- Parameter programmable via Mobile APP, PC software
- RS485 port with industrial standard MODBUS open architecture
- Aluminum housing for better cooling
- Fully encapsulated PCB, IP67 protection

Model	LS102460BPL	LS2024100BPL
Nominal system voltage	12/24V auto work	
Battery input voltage range	9~32V	
Max. PV open circuit voltage	50V	
Rated charge current	10A	20A
Max. output power	30W/12V, 60W/24V	50W/12V, 100W/24V
Max. output current	2.0A	3.3A
Max. output efficiency	96.7%	
Output voltage range	(Max. battery voltage+2V)~60V	
Load open circuit voltage	60V	
Self-consumption	≤11mA(12V); ≤9mA(24V)	
Temp. compensation coefficient	-3mV/°C/2V	
Grounding	Common Positive	
Overall dimension	107x73x20mm	108.5x102x25.6mm
Net weight	0.28kg	0.46kg
Enclosure	IP67	
Working environment temperature	-35°C~+55°C	

GS-CPLI series

Solar & Grid charge controller with built-in LED Driver



The GS-CPLI series solar & grid charge controller combines grid, solar controller and boost LED driver into one unit, using solar energy and grid complementary to charge for battery, and solar charge is preferred, maximize the use of clean energy. With high power supply rate, high reliability, especially for the application for LED lamp which requires dimmer function.

Features:

- The controller provide power supply to the load from solar or grid. Solar first and grid as backup
- Battery can be charged by grid when battery voltage is low and lack in solar
- Max. output efficiency of 96%
- Digital precision constant current control
- Flexible dimming function(0-100%)
- Battery temperature compensation function
- Battery type selection: GEL, Sealed (default), Flooded, and User(programmable).
- IR communication, no button design
- Aluminum housing for better cooling, IP68 protection
- Parameter setting via mobile APP(android only), RC-02 and SPP-02

Model	GS10120560CPLI	GS10121060CPLI	GS102405120CPLI
Nominal system voltage	12V	12V	24V
Max. PV charging current	10A	10A	10A
Max. grid charging current	5A	10A	5A
Grid charging voltage	13.3V	13.3V	26.6V
Max. PV open circuit voltage	25V	25V	50V
Max. output power	60W	60W	120W
Max. output current	4A(default 0.35A)	4A(default 0.35A)	4A(default 0.35A)
Output voltage range	(Max. battery voltage+2V)~60V		
Grid input range	AC230V \pm 15%, 50/60HZ		
Self-consumption	\leq 3W		
Temp. compensation	-3mV/°C/2V		
Communication	IR communication		
Overall dimension	292x81x49mm		
Net weight	1.8kg		
Enclosure	IP68		
Working environment temperature	-35°C~+55°C		



DCCP-DPRI series LED driver

DCCP-DPRI Series DC LED driver adopts the step-up voltage control, constant current driver design. The rated current range and working time is adjustable via infrared communication. The IP68 protection allows this series to fit both indoor and outdoor LED lightings, especially for solar LED lighting application.

Features :

- Maximum output efficiency of 95.7%
- Flexible dimming function (0-100%)
- Input surge suppression function
- Programmable via IR communication
- Wide working environment temperature (-40°C ~ 80°C)
- Long lifespan design
- Fully encapsulated PCB, IP68 protection (1.5 meters, 72h)
- Aluminum housing for better cooling

Model	DCCP6060DPRI	DCCP10060DPRI
Input voltage range	9V~33V	
Input surge voltage	3A/12V;6A/24V	6A/12V;12A/24V
Max. output current	2.0A	3.3A
Max. output power	30W/12V;60W/24V	50W/12V;100W/24V
Output voltage range	(Input voltage+2V)~60V	
Load open circuit voltage	60V	
Maximum output efficiency	95.7%	
Self-consumption	≤10mA(12V) ; ≤14mA(24V)	
Overall dimension	108.5x58x25.6mm	108.5x79x25.6mm
Net weight	0.25Kg	0.34Kg
Enclosure	IP68	
Working temp.	-40°C~+80°C	



SHI series Pure sine wave inverter

400VA,600VA, 1000VA 12V/24V/48V

SHI series is a pure sine wave inverter which can convert 12/24/48Vdc to 220/230Vac 50/60Hz based on full digital and intelligent design. It features high reliability, high efficiency, concise outline, small volume, easy installation and operation. The inverter can be applied in many fields, such as household appliances, electric tools and industrial devices etc, especially for solar photovoltaic power system.

Features:

- Input & output fully isolation
- Adoption of advanced SPWM technology, pure sine wave output
- Dynamic current loop control technology to ensure inverter reliable operation
- Wide DC input voltage range
- The output voltage and frequency can be switched
- Low output harmonic distortion (THD≤3%)
- LED indicators for input voltage range, load power range, normal output & failure state
- Optional energy saving mode
- Wide working temperature range (industrial level)
- Continuous operation at full power

Model	SHI400-12	SHI400-22	SHI600-12	SHI600-22	SHI1000-22	SHI1000-42	SHI2000-22	SHI2000-42	SHI3000-22	SHI3000-42
Nominal system voltage	12V	24V	12V	24V	24V	48V	24V	48V	24V	48V
Input voltage range	10.8~16 Vdc	21.6~32 Vdc	10.8~16 Vdc	21.6~32 Vdc	21.6~32 Vdc	43.2~64 Vdc	21.6~32 Vdc	43.2~64 Vdc	21.6~32 Vdc	43.2~64 Vdc
No Load Current	≤0.8A	≤0.45A	≤0.7A	≤0.45A	≤0.45A	≤0.35A	≤0.7A	≤0.7A	≤1.2A	≤1.0A
Output Voltage	220Vac±3% / 230Vac±10%									
Frequency	50/60Hz±0.2%									
Continuous power	400W		600W		1000W		2000W		3000W	
Surge power	900W		1350W		2250W		4600W		6900W	
Max. efficiency	≥92%	≥93%	≥93%	≥94%	≥94%	≥94%	≥95%	≥95%	≥95%	≥95%
Overall dimension	280×166×74.3mm		295×186×82mm		295×208×98mm		436×249×116mm		507×249×116mm	
Net weight	1.8kg		2.3kg		3.3kg		6.0kg		7.5kg	
Working temperature	-20℃~ +50℃									



STI series Pure sine wave inverter

200VA,300VA,500VA,700VA,1000VA 12V/24V/48V

STI series is a sine wave power frequency inverter which can convert 12V/24V/48Vdc to 220V/230V 50Hz based on full digital and intelligent design. It features high reliability, high efficiency, concise outline, full protection functions, easy installation and operation. The inverter can be applied in many fields especially for solar photovoltaic power system.

Features:

- Complete isolation-type inverter technology, noiseless output
- Adoption of advanced SPWM technology, pure sine wave output
- Dynamic current loop control technology to ensure inverter reliable operation
- Wide DC input voltage range
- Excellent EMC design
- Low output harmonic distortion (THD≤3%)
- LED indicators for input voltage range, load power range, normal output & failure state
- Optional energy saving mode
- Wide working temperature range (industrial level)
- Continuous operation at full power

Model	STI200-12-220	STI200-24-220	STI300-12-220	STI300-24-220	STI500-12-220	STI500-24-220	STI700-24-220	STI1000-24-220	STI1000-48-220
	STI200-12-230	STI200-24-230	STI300-12-230	STI300-24-230	STI500-12-230	STI500-24-230	STI700-24-230	STI1000-24-230	STI1000-48-230
Nominal system voltage	12V	24V	12V	24V	12V	24V	24V	24V	48V
Input voltage range	10.5~16V	21~32V	10.5~16V	21~32V	10.5~16V	21~32V	21~32V	21~32V	42~64V
Consumption no load(ON)	≤4W	≤5W	≤5W	≤6W	≤5W	≤6W	≤8.5W	≤10W	≤12W
Output voltage/Frequency	AC220V/230V±3% / 50Hz±0.2%								
Continuous power	200VA		300VA		500VA		700VA	1000VA	
Surge power	640VA		960VA		1600VA		2240VA	3200VA	
Max. efficiency	≥88%	≥89%	≥90%	≥91%	≥91%	≥93%	≥93%	≥93%	≥94%
Overall dimension	315*166*101mm				325*187*112mm		335×232×123.3mm	373×232×123.3mm	
Net weight	4.5kg		5.3kg		7.3kg		9.4kg	11.8kg	
Working temperature	-20℃~ +50℃								



SINOLTECH ENERGY LIMITED SHANDONG SINOLTECH INTERNATIONAL CO., LTD

One-stop Solar Energy Solution Provider

Solar Charge Controller • Inverter

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