

# EPSOLAR TECHNOLOGY

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*Solar Charge Controller • Inverter*



2015



BEIJING EPSOLAR TECHNOLOGY CO., LTD.

# COMPANY PROFILE

## EPSOLAR TECHNOLOGY

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

### BRAND INTRODUCTION



“EP” is an abbreviation of “Electronic Power”; it indicates our main product- Electronic Power Supply; “SOLAR” refers to Solar Industry.  
Brand “EPSOLAR” applies to solar charge controller series product made by EPSOLAR Technology.



“EP” is an abbreviation of “Electronic Power”; it indicates our main product- Electronic Power Supply; “EVER” means “FOR EVER”; it indicates that EPSOLAR Technology firmly focuses on R&D and is determined and committed to creating high quality power supply products under its User Centric philosophy.  
Brand “EPEVER” applies to inverter series and other power supply product made by EPSOLAR Technology.



## OUR ADVANTAGE

### RAPID DEVELOP

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

### INNOVATIVE DESIGN

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

### QUALITY CONTROL

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



### DIVERSIFIED PRODUCTS

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

### QUALITY COMPONENTS

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

### HIGH COST PERFORMANCE

We design and provide high quality products at reasonable price.



ISO9001:2008 ISO14001:2004 RoHS CE



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# 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	100VDC (Tracer-1210RN)	100VDC (Tracer-2210RN)	150VDC (Tracer-3215RN)	100VDC (Tracer-4210RN)
	150VDC (Tracer-1215RN)	150VDC (Tracer-2215RN)		
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			



# New Tracer series MPPT solar charge controller

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

New Tracer series is EPsolar's second generation of MPPT controller. Compared with CLASSIC Tracer series, it has extensive communication ability. And the die-cast aluminum design ensures excellent heat dispersion.

## Application



## Features:

- Peak conversion efficiency of 98%
- High tracking efficiency up to 99%
- Die-cast aluminum design and nature cooling
- Diversified load control to meet different requirements
- Four battery type options: Sealed, Gel, Flooded, and USER
- RS485 ports with MODBUS communication protocol
- Optional PC monitoring software and remote meter for real-time monitoring and battery management parameter setting
- 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			
Max. battery voltage	32V			
Max. PV input power	130W (12V)	260W (12V)	390W (12V)	520W (12V)
	260W (24V)	520W (24V)	780W (24V)	1040W (24V)
Self-consumption	≤50mA(12V) ≤27mA(24V)			
Grounding	Common negative			
Temp. compensation	-3mV/°C/2V			
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°C ~ +55°C			

# eTracer series MPPT solar charge controller



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

eTracer is an advanced Maximum Power Point Tracking (MPPT) controller for off-grid photovoltaic (PV) systems up to 3KW. The controller features a smart tracking algorithm that maximizes the energy harvest from the PV by rapidly finding the solar array peak power point in all the weather condition. The controller provides higher efficiency up to 98% with lower power loss.

The die-cast aluminum design ensures excellent heat dispersion.

## Application



## Features:

- Advanced MPPT algorithm with the max. tracking efficiency of 99.7%
- Peak conversion efficiency 98.7%
- 128\*64 dot-matrix LCD intuitively displays
- Four battery type options: Sealed, Gel, Flooded and User-defined
- Energy statistics recording
- Programmable battery management parameters
- Built-in running data and event logging, max. 15 months
- Log function: work logs and alarm logs are all recorded
- 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	
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 industrial grade product with advanced Maximum Power Point Tracking (MPPT) algorithm. It can deliver the maximum available power for charging batteries and charge a lower nominal voltage battery from a higher nominal voltage array. And can be applied in the off-grid PV systems up to 3KW. The die-cast aluminum design ensures excellent heat dispersion.

### Application



### Features:

- High Tracking efficiency of 99%, Peak conversion efficiency of 98%
- Four battery type options: Sealed, Gel, Flooded and USER
- 128\*64 dot-matrix LCD intuitively displays data and state
- Energy statistics recording
- Diversified load control mode
- Built-in running data and event logging, max.15 months
- Extensive communication capabilities (RS232, RS485 with Modbus protocol, CAN Bus extendable)
- PC software available for real time monitoring and parameter setting

Model	IT3415ND	IT4415ND	IT6415ND
Nominal system voltage	12V/24V /36V/48V auto work		
Rated battery current	30A	45A	60A
Rated load current	30A	45A	60A
Max. PV open circuit voltage	150V		
Voltage range	8~72V		
Max. PV input power	400W (12V)	600W (12V)	800W (12V)
	800W (24V)	1200W (24V)	1600W (24V)
	1200W (36V)	1800W (36V)	2400W (36V)
	1600W (48V)	2400W (48V)	3200W (48V)
Self-consumption	1.4~2.2W		
Grounding	Common negative		
Temp. compensation	-3mV/°C/2V		
Overall dimension	358x219x102mm	382x231x107mm	440x231x110mm
Net weight	3.7kg	4.6kg	5.9kg
Enclosure	IP20		
Working temperature	-25°C ~ +55°C		

# LandStar series PWM solar charge controller



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

**Manual ON/OFF**

LandStar series solar charge controller that adopts the most advanced digital technique and operates fully automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery.

## Application



## Features:

- 12/24V auto work
- High efficient Series PWM charging
- Use MOSFET as electronic switch
- Gel, Sealed and Flooded battery type option
- Temperature compensation
- Electronic protection: over charging, over discharging, overload, short circuit , and overheating
- Reverse protection: any combination of solar module and battery

Model	LS0512	LS1024	LS2024
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		

# 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

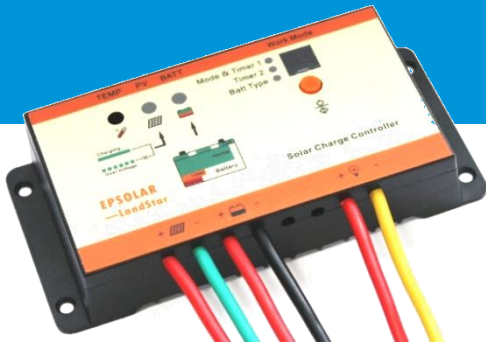


## Features:

- 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		

# LandStar series PWM solar charge controller



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

**Light and timer control, Waterproof, IP66**

LandStar series solar charge controller that adopts the most advanced digital technique and operates fully automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery. Ideal for extreme environments with corrosion, dust, water etc.

## Application



## Features:

- High efficient Series PWM charging
- Gel, Sealed and Flooded battery type option
- Widely used, automatically recognize day/night
- Intelligent timer function with 1-15 hours option
- Use MOSFET as electronic switch
- Digital LED menu with simple setting and easy using
- Temperature compensation
- Electronic protection: over charging, over discharging, overload, short circuit , and overheating
- Reverse protection: any combination of solar module and battery

Model	LS1024RP	LS2024RP
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	145x69x31mm	145x 85x34mm
Net weight	0.3kg	0.4kg
Enclosure	IP66	
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	

# New LandStar series PWM solar charge controller



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

New LandStar series is Epsolar's new generation programmable solar charge controller. All the models adopt aluminum heat sink which enables the reliability in high temperature environments. RS-485 or RS-232 connects to a remote meter or PC for real-time monitoring, custom setting and control etc.

## Application



## Features:

- High efficiency PWM charging with temperature compensation
- RS-485 or RS-232 bus communication
- Open standard Modbus communication protocol
- Field software update by connecting to PC

## More powerful function via MT50 or PC

- Diversified load control modes : Manual, Light ON/OFF, Light ON+ Timer, Time Control
- Battery type option: Gel, sealed, flooded and USER
- Real-time monitor
- Programmable parameters
- LVD or SOC load disconnect function
- Energy statistics function

Model	LS1024B	LS2024B	LS3024B
Rated battery current	10A	20A	30A
Rated load current	10A	20A	30A
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	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 ~ +55°C		



# LandStar-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-E series PWM solar charge controller



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

LS-E is newly launched economical solar charge controller of LandStar series. It adopts the most advanced digital technique and operates fully automatically for nominal system voltage of 12V/24V. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery. It's easy to use, with various unique functions.

## Application



## Features:

- High efficient Series PWM charging, increase battery lifetime and improve solar system performance
- Use MOSFET as electronic switch, without any mechanical switch
- LED indicators show battery voltage status
- Adopt temperature compensation, correct charging and discharging parameters automatically to improve battery lifetime
- Electronic protection: over charging, over discharging, overload, and short circuit
- Battery reverse polarity protection

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
Max. battery voltage	16V	16V	32V	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 with PWM solar charge controller

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

LS-EU is newly launched an economical solar charge controller of LandStar series, which adopts the most advanced digital technique and operates fully automatically. For the system of nominal voltage of 12/24VDC, the controller can identify them automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery. Based on the LS-E series, LS-EU series add a +5V/1.2A USB terminal output, various unique functions and quite easy to use.

### 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
- LED indicators indicate battery voltage state
- The USB will provide 5VDC which can charge for electronic equipment
- Adopt temperature compensation, correct the charging and discharging parameters automatically and improve the battery lifetime
- Electronic protection: over charging, over discharging, overload, and short circuit
- Reverse protection for battery

Model	LS0512EU	LS1012EU	LS1024EU	LS2024EU
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
Max. battery voltage	16V	16V	32V	32V
Self-consumption	≤6mA			
Grounding	Common positive			
Temp. compensation	-5mV/°C/2V			
USB output	5VDC/1.2A			
Overall dimension	109.7x65.5x20.8mm	120.3x67x21.8mm	120.3x67x21.8mm	148x85.6x34.8mm
Net weight	95g	103g	102g	179.6g
Enclosure	IP20			
Working temperature	-35°C ~ +55°C			

# ViewStar series PWM solar charge controller



**10A,20A,30A,45A,60A 12/24V auto work**  
**20A,30A,45A,60A 12/24/36/48V auto work**

ViewStar series solar controller is designed for off-grid solar system, such as street light, solar home system or small power station etc. It has LCD display, reliable battery charging, full electronic protection, and programmable parameters.

## Application



## Features:

- Adopt graphics dot-matrix LCD screen and HMI (human-machine interface) with 4 buttons, integrated menu displaying and operation
- 32 bit MCU with high speed
- Diversified load control modes : Manual, Light ON/OFF, Light ON+ Timer, Time Control
- Humanized design of browser interface, undertake every operating conveniently
- Full control parameters adjusting, diversified load control mode
- Battery type option: Gel, sealed, flooded and USER
- RS485 ports with MODBUS communication protocol
- Optional PC monitoring software and remote meter for real-time monitoring and battery management parametersetting
- Field upgradable firmware

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	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				

## 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	EPHC10-EC	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	

## EPIDB-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	EPIDB-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





## eModule series

### Modular solar power station controller

**120A, 180A, 240A 48V**

eModule series is the modular solar controller for solar photovoltaic telecommunication power supply, stand alone solar photovoltaic station and solar photovoltaic-diesel / gasoline generator or solar -utility power hybrid power supply system, which control and manage the system with the lowest power loss, the highest power supply quality and reliability, the lowest cost and the optimal electromagnetic compatibility and redundancy.

#### Features:

- Modular design, random assembly of charge module (2~8pcs), load module , management module and auxiliary module.
- Distributed control, each module are connected by CAN bus
- Charging and discharging adopt optimum control by compensation algorithm, like discharging rate, temperature, and other parameters
- HMI with monochrome dot matrix LCD screen and poly dome, easy to operate
- Adjustable charge and discharge control parameters with password protection
- Multiple isolated power supply for each module ensures high reliability, high anti - interference and electromagnetic compatibility
- High-performance 12-bit analog-digital converter, with high sampling resolution and accuracy
- RS232, RS485 communication port

Model	EMP120048H	EMP180048H	EMP240048H
Rated charge current	120A	180A	240A
PV arrays	4 groups	6 groups	8 groups
Nominal system voltage	48V		
Rated load current	60A		
Self consumption	320mA/15W		
Overall dimension	906 x770 x200mm		
Communication interface	RS232、RS485		
Enclosure	IP65		
Working temperature	-20℃ ~ +55℃		



## 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
Nominal system voltage	12V	24V	12V	24V	24V	48V
Input voltage range	10.8~16Vdc	21.6~32Vdc	10.8~16Vdc	21.6~32Vdc	21.6~32Vdc	43.2~64Vdc
No Load Current	≤0.8A	≤0.45A	≤0.7A	≤0.45A	≤0.45A	≤0.35A
Output Voltage	220Vac±3% / 230Vac±10%					
Frequency	50/60Hz±0.2%					
Continuous power	400W		600W		1000W	
Surge power	900W		1350W		2250W	
Max. efficiency	≥92%	≥93%	≥93%	≥94%	≥94%	≥94%
Overall dimension	280×166×74.3mm		295×186×82mm		295×208×98mm	
Net weight	1.8kg		2.3kg		3.3kg	
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 $\leq$ 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)	$\leq$ 4W	$\leq$ 5W	$\leq$ 5W	$\leq$ 6W	$\leq$ 5W	$\leq$ 6W	$\leq$ 8.5W	$\leq$ 10W	$\leq$ 12W
Output voltage/Frequency	AC220V/230V $\pm$ 3% / 50Hz $\pm$ 0.2%								
Continuous power	200VA		300VA		500VA		700VA	1000VA	
Surge power	640VA		960VA		1600VA		2240VA	3200VA	
Max. efficiency	$\geq$ 88%	$\geq$ 89%	$\geq$ 90%	$\geq$ 91%	$\geq$ 91%	$\geq$ 93%	$\geq$ 93%	$\geq$ 93%	$\geq$ 94%
Overall dimension	315*166*101mm				325*187*112mm		335 $\times$ 232 $\times$ 12 3.3mm	373 $\times$ 232 $\times$ 123.3mm	
Net weight	4.5kg		5.3kg		7.3kg		9.4kg	11.8kg	
Working temperature	-20 $^{\circ}$ C~+50 $^{\circ}$ C								



## DCCP series LED driver

The DCCP-DPR series is designed for LED indoor and outdoor lighting application condition, such as road lighting, landscape lighting and billboard lighting etc. It has the feature of high efficiency, high control accuracy, portable volume and fully waterproof design. The load control mode can be set freely.

### Features:

- Wide input voltage range DC9.5V—DC33V, compatible with 12V/24V full voltage range
- Digital high precision constant current control and the control accuracy are better than  $\pm 2\%$
- Max. conversion efficiency is 95%
- Adjustable rated output current in the rated power and current range
- Triangular timers output control , and dual exact timers output control ,and the output parameters can be programmed at each timer
- The RS232 serial port (TTL) for connection via the open standard Modbus protocol
- Fully encapsulated design, IP67 protection

Model	DCCP6060DPR	DCCP10060DPR
Nominal system voltage	12/24V	
Input voltage range	9.5V~33.0V	
Rated output power	30W/12V,60W/24V	50W/12V,100W/24V
Max efficiency	93%/12V; 95%/24V	
Rated output current	2.0A	3.3A
Load current	60W/Load voltage	100W/Load voltage
Output voltage range	Voltage of input~60V	
Self-consumption	$\leq 8.5\text{mA}(12\text{V}) ; \leq 11.0\text{mA}(24\text{V})$	
Overall dimension	106*60*21mm	108.5*82*25.6mm
Net weight	0.23Kg	0.39Kg
Working temp.	$-35^{\circ}\text{C} \sim +55^{\circ}\text{C}$	
Enclosure	IP67	





## Solar Charge Controller • Inverter



**BEIJING EPSOLAR TECHNOLOGY CO.,LTD.**

Add: BLDG #18, CO.PARK ,NO.8 HEYING  
ROAD,CHANGPING DISTRICT, BEIJING, CHINA  
Tel: 010-82894962 / 82894112  
Fax: 010-82894882  
E-mail: [info@epsolarpv.com](mailto:info@epsolarpv.com)  
Website: [www.epsolarpv.com](http://www.epsolarpv.com), [www.epever.com](http://www.epever.com)

