

Solar Charge Controller · Inverter





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EPSOLAR TECHNOLOGY

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COMPANY PROFILE EPSOLAR TECHNOLOGY

Beijing Epsolar Technology Co., Ltd. was established in March 2007 with more than 30 million RMB registered capital. We are a new and high-tech enterprise which was specialized in power products researching, manufacturing and marketing. We provide products including solar charge controllers, off-grid inverter, LED driver and special power units etc., as well as design and supply relevant solar application systems. The company has passed the ISO9001: 2008, and 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. And sell in more than 120 foreign countries and regions.

In July 2014, we established Shenzhen branch as our production base. In August 2014, we were listed in NATIONAL EQUITIES EXCHANGE AND QUOTATIONS and launched into capital market successfully.

BRAND INTRODUCTION



EP means "Efficient Power", SOLAR means "Solar photovoltaic". The Brand "EPSOLAR" indicates our main products and industry. It applies to solar charge controller products.



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. It applies to inverters and all the controllers launched since 2015.

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.



































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MPP Saler Charge Contractor

Tracer RN series MPPT solar charge controller

Tracer RN 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.

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

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

FEATURES

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











ELECTRONIC PROTECTIONS

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











PRODUCT FAMILY



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



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



Tracer-3215RN Tracer-4210RN 12/24V auto work

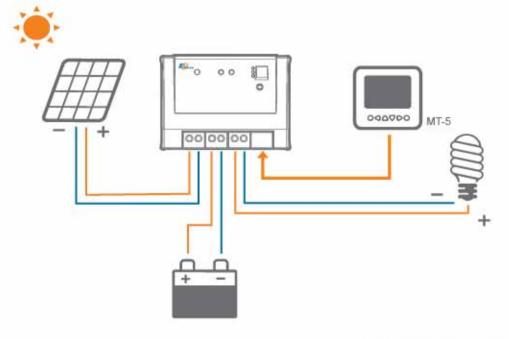


Remote meter and 2m communication cable

TECHNICAL SPECIFICATIONS

Model	Tracer-1210RN Tracer-1215RN	Tracer-2210RN Tracer-2215RN	Tracer-3215RN	Tracer-4210RN
Nominal system voltage		12/24V a	uto wark	
Rated battery current	10A	20A	30A	40A
Rated load current	10A	20A	20A	20A
Max. battery voltage		30	2V	
Max. PV open circuit voltage	100VDC Tracer-1210RN	100VDC Tracer-2210RN	450.000	400,000
Max. PV open circuit voltage	150VDC Tracer-1215RN	150VDC Tracer-2215RN	150VDC	100VDC
Max. PV input power	12V 130W	12V 260W	12V 390W	12V 500W
Max. PV input power	24V 260W	24V 520W	24V 780W	24V 1000W
Equalize charging voltage X		Sealed: 14.6V	Flooded: 14.8V	
Boost charging voltage X		Gel: 14.2V, Sealed:	14.4V, Flooded: 14.6	3V
Float charging voltage ×		Gel /Sealed /	Flooded: 13.8V	
Low voltage reconnect voltage X		Gel /Sealed	Flooded: 12.6V	
Low voltage disconnect voltage X		Gel /Sealed	/Flooded: 11.1V	
Self-consumption		≤10m	A (24V)	
Grounding		Commo	on negative	
Temp. compensation		-5m\	IPC/2V	
Overall dimension	156x97x68mm	169x118x83mm	242x189x91mm	242x169x91mm
Net weight	0.55kg	0.95kg	2kg	2.05kg
Enclosure		THE STATE OF THE S	230	
Working temperature		-25%	~ +55°C	

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













MPPT solar charge controller



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

FEATURES

- . Innovative MPPT technology
- Peak conversion efficiency of 98%
- . High tracking efficiency up to 99%
- · Several seconds tracking speed
- . 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

ELECTRONIC PROTECTIONS

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

























PRODUCT FAMILY



Tracer1215BN/Tracer2215BN/ Tracer3215BN/Tracer4215BN 12/24V auto work 10A,20A,30A,40A



Remote meter. with communication





PC software





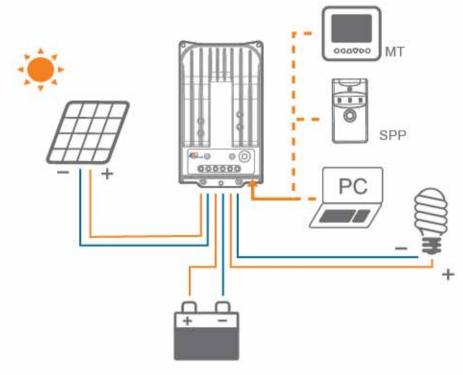


RTS300R47K3.81A Remote temperature

TECHNICAL SPECIFICATIONS

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. battery voltage		30	2V	
Max. PV open circuit voltage	150V			
n Emily	12V 130W	12V 260W	12V 390W	12V 520W
Max. PV input power	24V 260W	24V 520W	24V 780W	24V 1040W
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V			
Boost charging voltage ×	Gel: 14.2V,	Sealed: 14.4V, Floods	d: 14.6V, User-define	ed: 9~17V
Float charging voltage %	Gel /S	Sealed /Flooded: 13.8V	User-defined: 9~17	/
Low voltage reconnect voltage ×	Gel /S	ealed /Flooded: 12.6V	User-defined: 9~17\	f
Low voltage disconnect voltage X	Gel /	Sealed /Flooded: 11.1\	, User-defined: 9~17\	ŧ.
Self-consumption		≤50mA(12V);	\$27mA(24V)	
Grounding		Commo	n negative	
Temp. compensation		-3m\	//°C/2V	
Overall dimension	196x118x36mm	217x143x56mm	281x160x60mm	303x183x64mm
Net weight	0.9kg	1.5kg	2.3kg	2.9kg
Enclosure		IF	30	
Working temperature		-35℃	~ +55°C	

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







eTracer series

MPPT solar charge controller

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

FEATURES

- . Advanced MPPT algorithm with the max, tracking efficiency of 99%
- . Peak conversion efficiency of 98%
- . Multiphase control technology
- . 128*64 dot-matrix LCD intuitively displays
- . Four battery type options: Sealed, Gel, Flooded, and USER
- . Energy statistics recording
- · Programmable battery management parameters
- . Built-in running data and event logging, max. 15 months
- Extensive communication capabilities (RS232,RS485) with Modbus protocol)
- . PC software available for real time monitoring and parameter setting
- · Field upgradable firmware









ELECTRONIC PROTECTIONS

- · PV short circuit protection
- · PV reverse polarity protection
- · PV overvoltage alarm protection
- · PV over current alarm protection
- Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- · Overheating protection

Application











PRODUCT FAMILY



ET4415BND/ ET6415BND 12/24/36/48V auto work 45A,60A





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

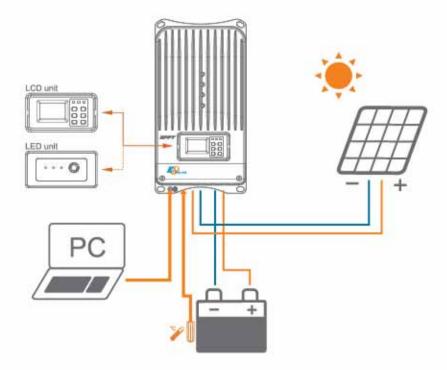


RTS300R10K5.08A Remote temperature

TECHNICAL SPECIFICATIONS

Model	ET4415BND	ET6415BND		
Nominal system voltage	12/24/36/4	BV auto work		
Rated battery current	45A	60A		
Max. battery voltage	. 7	2V		
Max. PV open circuit voltage	15	50V		
	12V 600W	12V 800W		
Mary DIV Service and Service	24V 1200W	24V 1600W		
Max. PV input power	36V 1800W	36V 2400W		
	48V 2400W	48V 3200W		
Equalize charging voltage X	Sealed: 14.6V, Flooder	d: 14.8V, User-defined: 9~17V		
Boost charging voltage ×	Gel: 14.2V, Sealed: 14.4V, F	looded: 14.6V, User-defined: 9~17\		
Float charging voltage %	Gel /Sealed /Flooded: 13	.8V, User-defined: 9~17V		
Low voltage reconnect voltage %	Gel /Sealed /Flooded: 1	2.6V, User-defined: 9~17V		
ow voltage disconnect voltage X	Gel /Sealed /Flooded: 1	11.1V, User-defined: 9~17V		
Self-consumption	1.4	~2.2W		
Grounding	Commo	on negative		
Temp. compensation	-3m	V/°C/2V		
Overall dimension	398.6x208x107mm	449x208x107mm		
Net weight	4.3kg	5.5kg		
Enclosure	IP20			
Working temperature	-25°C ~ +55°C			

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











iTracer series MPPT controller with load control

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

FEATURES

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





















ELECTRONIC PROTECTIONS

. PV short circuit protection · PV reverse polarity protection

· PV overvoltage alarm protection

· PV current limiting protection

Battery overcharge protection

Load overload protection

· Overheating protection

Application

· Load short circuit protection

· Battery over discharge protection

· Battery reverse polarity protection



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PRODUCT FAMILY



IT3415ND/ IT4415ND / IT6415ND 12/24/36/48V auto work 30A,45A,60A



PC software



CC-USB-RS485 -150U-3.81

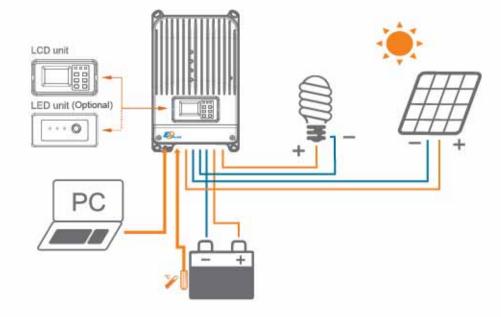


RTS300R10K5.08A Remote temperature

TECHNICAL SPECIFICATIONS

Model	IT3415ND	IT4415ND	IT6415ND	
Nominal system voltage		12/24/38/48V auto work		
Rated battery current	30A	45A	60A	
Rated load current	30A	45A	60A	
Max. battery voltage		72V		
Max. PV open circuit voltage		150V		
	12V 400W	12V 600W	12V 800W	
Max. PV input power	24V 800W	24V 1200W	24V 1600W	
Max. 1 v hiput power	36V 1200W	36V 1800W	36V 2400W	
	48V 1600W	48V 2400W	48V 3200W	
Equalize charging voltage X	Sealed: 14.6	6V, Flooded: 14.8V, User-de	fined: 9~17V	
Boost charging voltage X	Gel: 14.2V, Sealed	l: 14.4V, Flooded: 14.6V, Use	er-defined: 9~17V	
Float charging voltage %	Gel /Seale	d /Flooded: 13.8V, User-defi	ned: 9~17V	
Low voltage reconnect voltage %	Gel /Sealed /	Flooded: 12.6V, User-define	d: 9~17V	
Low voltage disconnect voltage %	Gel /Seale	d /Flooded: 11.1V, User-defin	ed: 9~17V	
Self-consumption		1.4~2.2W		
Grounding		Common negative		
Temp, compensation		-3mV/°C/2V		
Overall dimension	358x219x102mm	382x231x107mm	440x231x110mm	
Net weight	3.7kg	4.6kg	5.9kg	
Enclosure	IP20			
Working temperature		-25°C to +55°C		

※Technical data for 12V system at 25°C, twice in 24V system rate, triple in 38V system rate and quadruple in 48V system rate.











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.



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
- . High efficient Series PWM charging
- . Use MOSFET as electronic switch
- · 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 parameter
- Field upgradable firmware

ELECTRONIC PROTECTIONS

- PV short circuit protection
- Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- · Load short circuit protection
- · Overheating protection

Application





























- · PV reverse polarity protection

- · Load overload protection











PRODUCT FAMILY



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



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



MT50 with communication



Super parameter



PC software



CC-USB-RS485-150U



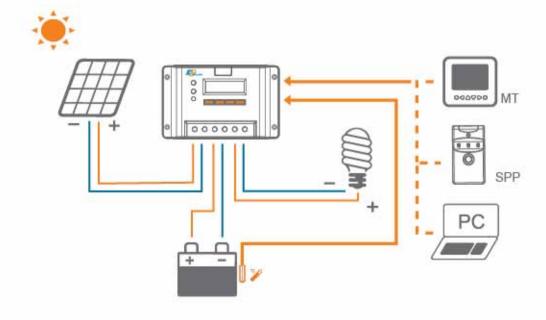
RTS300R47K3.81A Remote temperature sensor

TECHNICAL SPECIFICATIONS

Model	Vertenden	VS2024BN	VS3024BN	VS4524BN	VS6024BN
Model	VS1024BN	VS2048BN	VS3048BN	VS4548BN	VS6048BN
Nominal system voltage	12/24V auto work		/S**24BN 12/24 /S**48BN 12/24/3	V auto work 6/48V auto work	
Rated battery current	10A	20A	30A	45A	60A
Rated load current	10A	20A	30A	45A	80A
Max. battery voltage		12V/24	V 32V; 12/24/36	/48V 64V	
Equalize charging voltage X		Sealed: 14.6V, F	looded: 14.8V, Us	er-defined: 9~17V	
Boost charging voltage%	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V				9~17V
Float charging voltage ×		Gel /Sealed /Flo	ooded: 13.8V, Use	r-defined: 9~17V	
Low voltage reconnect voltage X		Gel /Sealed /Flo	oded: 12.6V, Use	r-defined: 9~17V	
Low voltage disconnect voltage X		Gel /Sealed /Flo	ooded: 11.1V, Use	r-defined: 9~17V	
Self-consumption	≤	15mA(12V); ≤10m	ıA(24V); ≤9mA(36	3V); ≤8mA(48V)	
Grounding		С	ommon negative		
Temp. compensation			-3mV/*C/2V		
Enclosure			IP30		
Working temperature			-25°C~+55°C		

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

Model	VS1024BN	VS2024BN		VS4524BN VS3048BN	VS4548BN	VS6024BN	VS6048BN
Dimension	162×85×40mm	162×100×50mm	200×103×58mm	201×109×59mm	205×119×87mm	205×129×87mm	205×174×64mm
Net weight	0.2kg	0.4kg	0.7kg	0.9kg	1.2kg	1.3kg	1.5kg









LandStar E series PWM solar charge controller



LandStar E economic solar controller is new member of LandStar family and ideal for small solar system especially home system. It has the beautiful appearance, and simple operation. And the industrial grade design ensures its reliability. Based on the LS-E series, LS-EU series add a +5V/1.2A USB terminal output which can charge mobile phone, fans and other electronic device.

FEATURES

- . High efficient Series PWM charging, increase battery lifetime and improve solar system performance
- . Use MOSFET as electronic switch, without any mechanical switch
- · Gel, Sealed, and Flooded battery type optional
- . Manual control the output of the load
- . Intuitive LED indicators showing battery voltage status
- . The USB will provide 5VDC which can charge for electronic equipment
- . Temperature compensation









ELECTRONIC PROTECTIONS

- · Battery over discharge protection
- · Battery reverse polarity protection
- · Load short circuit protection
- · Load overload protection

Application





PRODUCT FAMILY



LS0512E/ LS1012E/ LS1024E/LS2024E 12V/24V 5A,10A,20A

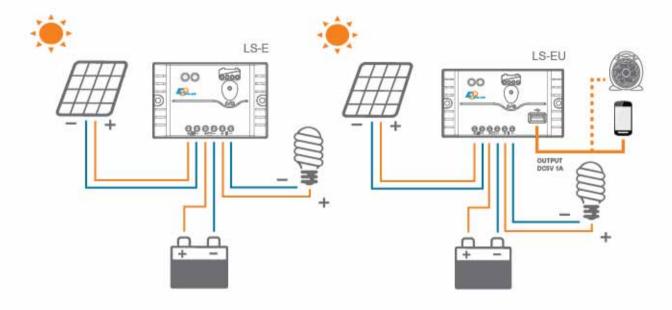


LS0512EU/ LS1012EU/LS1024EU/LS2024EU 12V/24V 5A,10A,20A USB output

TECHNICAL SPECIFICATIONS

Model	LS0512E	LS0512EU	LS1012E	LS1012EU	LS1024E	LS1024EU	LS2024E	LS2024EU
Nominal system voltage	1	2V	12	.v	12/24V a	uto work	12/24V a	uto work
Rated battery current	5	iA	1	DA .	1	DA.	20	A
Rated load current		iA	1	DA.	1	DA	20	A
Max. battery voltage		16	3V			32	v	
Equalize charging voltage %		Sealed: 14.6V, Flooded: 14.8V						
Boost charging voltage ×	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V							
Float charging voltage *	Gel /Sealed /Flooded: 13.8V							
Low voltage reconnect voltage X	Gel /Sealed /Flooded: 12.6V							
Low voltage disconnect voltage X	Gel /Sealed /Flooded: 11.1			oded: 11.1V				
Self-consumption	≤8mA							
Grounding				Common	positive			
Temp. compensation				-5mV/	C/2V			
Dimension(mm)	92.8x65x20.2	109.7x65.5x20.8	101.2x67x21.8	120.3x67x21.8	101.2x67x21.8	120.3x67x21.8	128x85.6x34.8	148x85.6x34.8
Net weight	74g	95g	82.5g	103g	82g	102g	151.6g	179.6g
Enclosure	IP30	IP20	IP30	IP20	IP30	IP20	IP30	IP20
Working temperature				-35°C -	+55°C			

[※]Technical data for 12V system at 25 ℃, twice in 24V system rate.











LandStar B series PWM solar charge controller

LandStar B 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.

FEATURES

- . Three system voltage configuration: 12V, 24V or 12/24V auto work
- High efficiency PWM charging with temperature compensation
- · External temperature sensor interface
- 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

















ELECTRONIC PROTECTIONS

- · PV short circuit protection
- · PV reverse polarity protection
- · Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- · Load short circuit protection
- · Load overload protection
- · Overheating protection

Application









PRODUCT FAMILY



LS1024B/ LS2024B /LS3024B 12/24V 10A,20A,30A



LS1024BP LS2024BP 12/24V 10A,20A Waterproof, IP67



MT50 with communication



SPP-01 Super parameter



CC-USB-RS485-150U cable for LS-B



CC-USB-TTL-150U

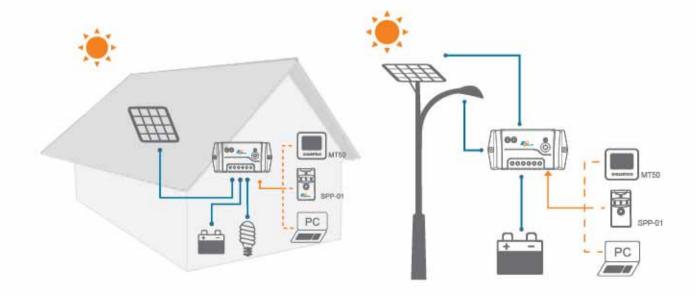


RTS300R47K3.81A Remote temperature

TECHNICAL SPECIFICATIONS

Model	LS1024B	LS1024BP	LS2024B	LS2024BP	LS3024B
Nominal system voltage			12/24V auto work		"
Rated battery current	10A	10A	20A	20A	30A
Rated load current	10A	10A	20A	20A	30A
Max. battery voltage			34V		
Equalize charging voltage X		Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V			
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V				
Float charging voltage ×	Gel /Sealed /Flooded: 13.8V, User-defined: 9~17V				
Low voltage reconnect voltage X		Gel /Sealed /Flo	oded: 12.6V, User-	defined: 9~17V	
Low voltage disconnect voltage ×		Gel /Sealed /Flo	oded: 11.1V, User-	defined: 9~17V	
Self-consumption		≤8.	4mA(12V), ≤7.8m	A(24V)	
Grounding			Common positive		
Temp. compensation			-3mV/'C/2V		
Dimension	138.6×69,3×37mm	108.5×64.5×25.6mm	159.6×81.4×47.8mm	139×76.5×28mm	200.6×101.3×57m
Net weight	0.13kg	0.4kg	0.3kg	0.6kg	0.5kg
Enclosure	IP30	1P67	IP30	IP67	(P30
Working temperature			-35°C ~ +55°C		

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













LandStar series

PWM solar charge controller

LandStar series is for off-grid solar system, such as home system, traffic system, CCTV system, street light, garden lights, parking area, and bus station. It adopts the most advanced digital technique and operates fully automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery.



FEATURES

- . High efficient Series PWM charging
- . Use MOSFET as electronic switch
- . Gel, Sealed and Flooded battery type option
- Temperature compensation
- LED indicators indicate battery voltage state







ELECTRONIC PROTECTIONS

- · PV short circuit protection
- PV reverse polarity protection
- · Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- · Load short circuit protection
- Load overload protection

Application













PRODUCT FAMILY



LS0512 12V, 5A Manual ON / OFF



12V, 5A Light and timer control



LS1024 / LS2024 12/24V auto work 10A,20A Manual ON / OFF



LS1024R / LS2024R 12/24V auto work 10A,20A Light and timer control



LS1024RP / LS2024RP 12/24V auto work 10A,20A Waterproof, IP66 Light and timer control



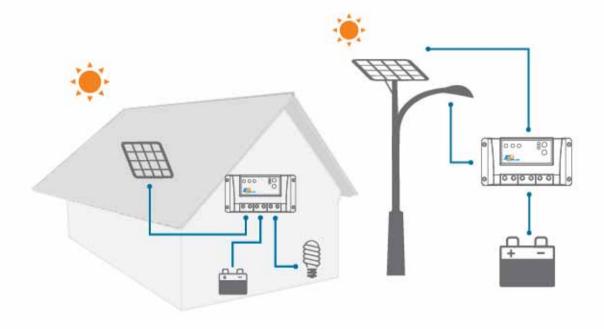
LS1024S / LS2024S 12/24V auto work 10A,20A Surfacing mounting

TECHNICAL SPECIFICATIONS

Model	LS0512 LS0512R	LS1024 LS1024R LS1024RP LS1024S	LS2024 LS2024R LS2024RP LS2024S	
Rated system voltage	12V	12/24V au	to work	
Rated battery current	5A	10A	20A	
Rated load current	5A	10A	20A	
Max. battery voltage	16V	32	ev.	
Equalize charging voltage X	Sealed: 14.6V, Flooded: 14.8V			
Boost charging voltage X	Gel: 1	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V		
Float charging voltage X		13.8V		
Low voltage reconnect voltage X		12.6V		
Low voltage disconnect voltage ×		11.1V		
Self-consumption	≤8mA			
Grounding	Common positive			
Temp. compensation	-5mV/°C/2V			
Working temperature		-35°C ~ +55°C		

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

Model	LS0512 LS0512R	LS1024 LS1024R	LS2024 LS2024R	LS1024RP	LS2024RP	LS1024S	LS2024S
Dimension	97×86×25mm	140×65×34mm	144×75×45mm	145×69×31mm	145×85×34mm	120×68×40mm	128×87×48mm
Net weight	0.05kg	0.15kg	0.25kg	D.3kg	0.4kg	0.15kg	0.25kg
Enclosure	IP30	IP30	IP30	IP66	IP66	IP30	IP30



LandStar series www.epsolarpv.com EP series www.epsolarpv.com



LandStar EPD series

PWM solar charge controller

LandStar EPD series solar charge controller adopts the most advanced digital technique and operates fully automatically. It is ideal for extreme environments with corrosion, dust, moisture etc., and has various functions.

FEATURES

- * High efficient PWM charging
- · Widely used, automatically recognize day/night
- . LED indicators for PV and battery status
- . Industrial design, wide application range
- . Digital tube menu, only one key solve all settings
- Intelligent timer function with 1~13 hours option
- * IP67 protection

ELECTRONIC PROTECTIONS

- · PV reverse polarity protection
- . Battery overcharge protection
- . Battery over discharge protection
- · Battery reverse polarity protection
- · Battery overheating protection
- . Load short circuit protection
- . Load overload protection

Model	LS1012EPD	LS1024EPD	LS2024EPD
Nominal system voltage	12V	12/24\	/ auto
Rated battery current	10A	1DA	20A
Rated load current	10A	10A	20A
Max. PV input voltage	30V	50V	50V
Equalize charging voltage X		14.8V	
Boost charging voltage X	14.4V		
Float charging voltage ×	13.7V		
Low voltage reconnect voltage X	12.6V		
Low voltage disconnect voltage X		11.2V	
Self-consumption	1	2V; ≤4.58mA; 24V; ≤6.01r	nA
Grounding		Common positive	
Temp. compensation	-5mV/°C/2V		
Overall dimension	108.5×75×25,6mm		
Net weight	408g 410g 435g		435g
Enclosure	IP87		
Working temperature		-35℃ to +55℃	

[※]Technical data for 12V system at 25℃, twice in 24V system rate.

EP series

PWM solar charge controller

EPIPDB-COM Dual battery solar controller

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. The charging priority is selectable. Extensive electronic protections: over charging, short circuit, and reverse polarity.

Model	EPIPDB-COM
Nominal system voltage	12/24V auto work
Rated current	10A, 20A
Dimension	153x76x37mm
Net weight	0.24kg



EPIPDB-COM 12/24V auto work 10A.20A



Remote meter and 2m communication cable

EPRC10-EC/EPHC10-EC Solar charge controller

EPRC10-EC / EPHC10-EC is economic controller for solar home system, street light 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.

Model	EPRC10-EC	EPHC10-EC			
Nominal system voltage	12V/	24V			
Rated current	10A				
Dimension	140x89x27mm				
Net weight	0.2	3kg			



EPRC10-EC 12V/24V auto work Light and timer control



EPHC10-EC 12V/24V auto work Manual ON/OFF



Tracer RPLI series

Solar Charge Controller & LED Driver

It combines solar charge controller and constant current LED driver into one unit which is ideal for solar LED Lighting, especially when dimmer function is needed. The control parameter can be programmed via Mobile APP, Remote Meter and SPP-01.



- MPPT technology
- . Peak conversion efficiency of 98 %
- · High Tracking efficiency of 99%
- · Parameter setting via Mobile APP, Remote Meter and SPP-01 with IR function
- . Maximum output efficiency of 96%
- . Dimming function
- . Control accuracy are within ±2%
- * Temperature compensation
- . Widely used, automatic recognize day/night
- . Fully encapsulated PCB, IP68 protection
- . Aluminum housing for better cooling

















ELECTRONIC PROTECTIONS

- PV short circuit protection
- · PV current limiting protection
- · PV reverse polarity protection
- Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- · Battery overheating protection
- Load overload protection
- · Load short circuit protection

Application





PRODUCT FAMILY



Tracer1306RPLI/Tracer2006RPLI Tracer2010RPLI/Tracer4010RPLI 12/24V auto work 130W,200W,400W



Super Parameter Programmer (for bulk quantity products

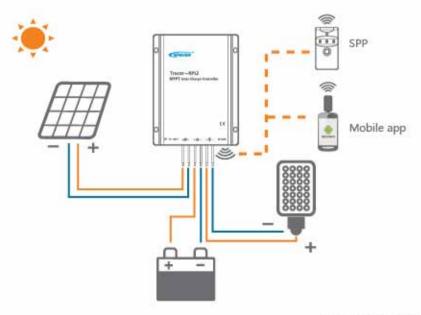


on mobile phone or PAD with Android system

TECHNICAL SPECIFICATIONS

Model	Tracer1306RPLI	Tracer2006RPLI	Tracer2010RPLI	Tracer4010RPLI			
Nominal system voltage							
Rated charge current	10A/12V; 5A/24V	/12V; 5A/24V 15A/12V; 7.5A/24V					
Max. PV input voltage	60V	60V	100V	100V			
Rated charge power	130W	200W/12V;400W/24					
Battery terminal voltage		9 ~ 32V					
Rated output power	60W	10	VVD	200W			
Rated output Current	2.0A	2.0A 3.3A					
Output voltage range	Vari+2\	Vsar+2V~60V Vsar+2V~80					
Load open circuit voltage	8	60V 80V					
Max output efficiency		96	3%				
Control accuracy	±2%						
Equalize charging voltage ×	Sealed: 14.6V, Flooded: 14.8V						
Boost charging voltage [※]	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.8V						
Float charging voltage %		13.8V					
Low voltage reconnect voltage X		12	6V				
Low voltage disconnect voltage X		11	.tV				
Self-consumption		\$21mA/12V;\$	13mA/24V				
Grounding		Commo	n positive				
Temp. compensation		-3mV/	C/2V				
Overall dimension	153x118x29mm	172,3x11	8x41,5mm	193.3x98.6x45.9mm			
Net weight	0.85kg	:151	1kg	1.41kg			
Enclosure	IP88						
Working temperature	-35°C~+55°C						

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





LandStar EPLI series

Solar Charge Controller & LED Driver

It combines solar charge controller and constant current LED driver into one unit which is ideal for solar LED Lighting, especially when dimmer function is needed. The control parameter can be programmed via Mobile APP, Remote Meter and SPP-01.

FEATURES

- · High efficient PWM charging
- · Parameter setting via Mobile APP, Remote Meter and SPP-01 with IR function
- . Maximum output efficiency of 96%
- · Dimming function
- . Control accuracy are within ±2%
- * Temperature compensation
- . Widely used, automatic recognize day/night
- * Fully encapsulated PCB, IP68 protection
- . Aluminum housing for better cooling











ELECTRONIC PROTECTIONS

- PV short circuit protection
- · PV reverse polarity protection
- · Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- Load overload protection
- · Load short circuit protection
- · Overheating protection

Application





PRODUCT FAMILY



LS101240EPLI / LS102460EPLI / LS2024100EPLI 12/24V 10A,20A



Super Parameter Programmer (for bulk quantity products

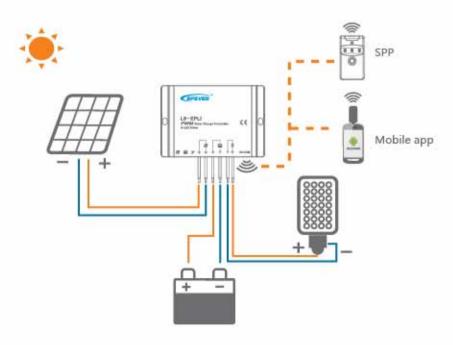


on mobile phone or PAD with Android system

TECHNICAL SPECIFICATIONS

Model	LS101240EPLI	LS102460EPLI	LS2024100EPLI					
Nominal system voltage	12VDC	12VDC 12/24VDC						
Max. PV input voltage	30V	50V	50V					
Battery terminal voltage	9 ~ 16V	9 ~ 32V						
Rated charge current	10A	10A	20A					
Rated output power	40W/12V	30W/12V, 60W/24V	50W/12V, 100W/24V					
Rated output Current	2.6A	2.0A	3.3A					
Max efficiency	96%	96%	96%					
Output voltage range		Vax+2V ~ 60V						
Load open circuit voltage		60V						
Control accuracy	±2%							
Equalize charging voltage X	Sealed: 14.6V, Flooded: 14.8V							
Boost charging voltage X	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V							
Float charging voltage X		13.8V						
Low voltage reconnect voltage X	12.6V							
Low voltage disconnect voltage ×		11.1V						
Self-consumption		12V:≤9.1mA; 24V:≤7.0mA						
Temp. compensation		-3mV/°C/2V						
Overall dimension	108.5x100,5x25.6mm 108.5x118							
Net weight	9	0.28kg						
Enclosure	IP68							
Working temperature	-35°C~+55°C							

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











LandStar BPL series

Solar Charge Controller & LED Driver



LandStar BPL 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. It can also reduce the system cost and increase the system flexibility.

Fully encapsulated PCB, IP67 design, aluminum case ensures the controller can work in extremely terrible, and increase system operation, reliability and efficiency.

FEATURES

- · High efficient PWM charging
- · Four battery type options: Sealed, Gel, Flooded, and USER
- . Maximum output efficiency of 95%
- . Dimming function
- Control accuracy are within ±2%
- · Temperature compensation
- . Widely used, automatic recognize day/night
- . Fully encapsulated PCB, IP67protection
- . Aluminum housing for better cooling
- . Extensive communication capabilities (TTL232 with Modbus protocol)











ELECTRONIC PROTECTIONS

- PV short circuit protection
- · PV reverse polarity protection
- · Battery overcharge protection
- · Battery over discharge protection
- · Battery reverse polarity protection
- Load overload protection
- · Load short circuit protection
- · Overheating protection

Application





PRODUCT FAMILY



LS102460BPL/ LS2024100BPL 12/24V 10A,20A





CC-USB-TTL-150U

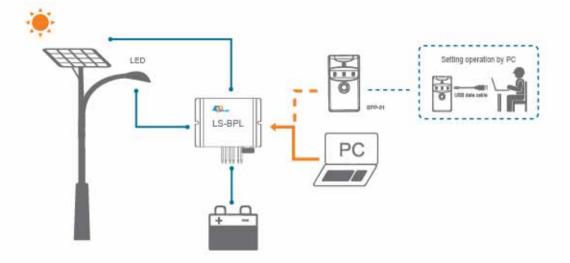


Super Parameter Programmer(for bulk quantity products setting)

TECHNICAL SPECIFICATIONS

Model	LS102460BPL	LS2024100BPL			
Nominal system voltage	12/	24VDC			
Max. PV input voltage	50V				
Battery terminal voltage	8 -	- 32V			
Rated charge current	10A	20A			
Rated output power	30W/12V 60W/24V	50W/12V, 100W/24V			
Rated output Current	2.0A	3.3A			
Max efficiency	Ş	5%			
Output voltage range	Vak	~ 60V			
Load open circuit voltage		80V			
Control accuracy	±2%				
Equalize charging voltage%	Sealed: 14.6V, Flooded: 14.6V				
Boost charging voltage X	Gel: 14.2V, Sealed:	14.4V, Flooded: 14.6V			
Float charging voltage X	1	3.8V			
Low voltage reconnect voltage X	12.6V				
Low voltage disconnect voltage X	11.1V				
Self-consumption	≤9.1mA(12\	/); ≤7.0mA(24V)			
Grounding	Comm	on positive			
Temp. compensation	-3m ¹	//°C/2V			
Overall dimension	108.5x73x25.6mm	108.5x110x25.6mm			
Net weight	0.4kg	0.6kg			
Enclosure	IP87				
Working temperature	-35°C~+55°C				

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













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 ± 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









ELECTRONIC PROTECTIONS

- · Load overload protection
- · Load short circuit protection
- · Input reversed polarity protection
- Overheating protection

Application



PRODUCT FAMILY



DCCP6060DPR Rated output current: 2.0A Rated output power 30W/12V, 60W/24V



DCCP10060DPR Rated output current: 3.3A Rated output power. 50W/12V, 100W/24V



SPP-01 programmer

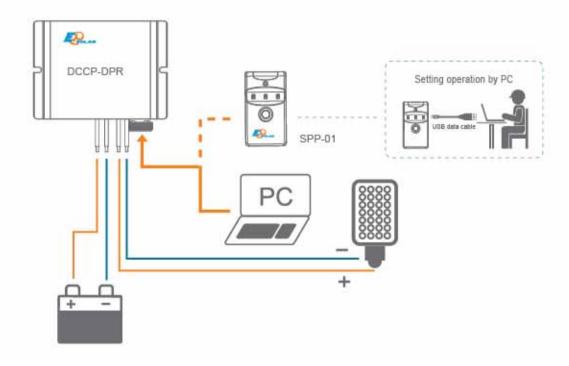


CC-USB-TTL-150U PC communication

TECHNICAL SPECIFICATIONS

Model	DCCP6060DPR	DCCP10060DPR				
Nominal system voltage	12V/24V					
nput voltage range	9.5~	33.0V				
Rated output power	30W/12V, 80W/24V	50W/12V, 100W/24V				
Rated output current	2.0A	3.3A				
.oad current	60W/Load voltage	100W/Load voltage				
Max efficiency	93%/12	V; 95%/24V				
Output voltage range	Voltage of input ~60V					
oad open circuit voltage	60V					
ower output adjustment time	<10s					
Self-consumption	≤8.5mA(12V), ≤11.0mA(24V)					
Control accuracy	±	2%				
Overall dimension	106×80×21 mm	108.5×82×25.6 mm				
Net weight	0.23Kg	0.39Kg				
Enclosure	IP	67				
Working temp.	-35°C~+55°C					

※ Technical data at 25℃



SHI series Pure sine wave inverter



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



PRODUCT FAMILY



SHI400/ SHI600/ SHI1000/ SHI2000/ SHI3000 12V/24V/48V 400W,600W,1000W,2000W,3000W

ELECTRONIC PROTECTIONS

- · Output short circuit protection
- · Overload protection
- . Input low voltage protection
- Input over voltage protection
- · Inverter abnormal protection
- · Overheating protection

Application







Output socket (option)







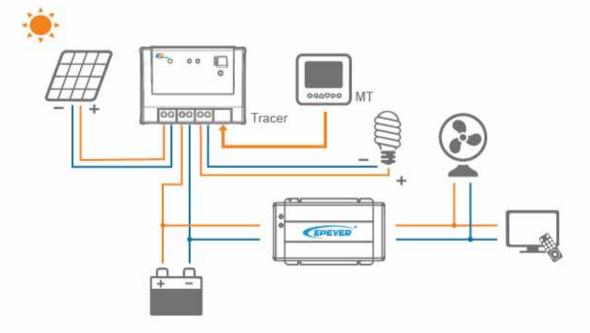
Universal European

Australia/ New Zealand

TECHNICAL SPECIFICATIONS

Model	SHI400-12	SHI400-22	SHI600-12	SHI600-22	SHI1000-22	SH11000-42	SHI2000-22	SHI2000-42	SHI3000-22	SHI3000-42	
Nominal system voltage	12V	24V	12V	24V	24V	48V	24V	48V	24V	48V	
Input voltage range	10.8~16Vdc	21,6~32Vdc	10.8~16Vdc	21.6~32Vdc	21.6~32Vdc	43.2~64Vdc	21.8~32Vdc	43.2~84Vdc	21.6~32Vdc	43.2~64Vdc	
No Load Current	≤0.8A	≤0.45A	≤0.7A	≤D.45A	≤0.45A	≤0.35A	≤0.7A	≤0.7A	≤1.2A	≤1.0A	
Output voltage					220Vac±39	6 / 230Vac±10	0%				
Continuous power	40	OW	60	DVV	100	WOO	20	00W	300	ow	
Pawer 10sec	60	DVV	90	900W 1500W				3000W 450		woo	
Power 1.5sec	808	OW	12	1200W 2000W 4000W				8000W			
Surge power	90	ow	13	1350W 2250W 4600W 6900						OW	
Output mode		Single phase									
Wave form					Pure S	Sine Wave					
Frequency					50/60	Hz±0.2%					
Distortion THD					≤3%(res	sistive load)					
Efficiency at rated power	≥91%	≥92%	≥91%	≥92%	≥93%	≥93.5%	≥93%	≥94%	≥93%	≥94%	
Max. efficiency	≥92%	≥93%	≥93%	≥94%	≥94%	≥94%	≥95%	≥95%	≥95%	≥95%	
Dimension	280×16	8×74,3mm	295×18	6×82mm	295×208×98mm		436×249×116mm		507×249×116mm		
Net weight	1.	8kg	2.3kg			3.3kg 6.0kg			7.5kg		
Enclosure		IP30									
Working temperature		-20℃~+50℃									

※ Technical data at 25℃.



STI series Pure sine wave inverter



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
- . 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





PRODUCT FAMILY



STI200/ STI300/ STI500/ STI700/ STI1000 12V/24V/48V 200W,300W,500W,700W,1000W

ELECTRONIC PROTECTIONS

- · Output short circuit protection
- · Overload protection
- · Input low voltage protection
- · Input over voltage protection
- · Input reverse polarity protection
- · Inverter abnormal protection
- Overheating protection

Application







Output socket (option)







Universal

European

Australia/ New Zealand

TECHNICAL SPECIFICATIONS

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	STI1000-4 -230	
Nominal system voltage	12V	24V	12V	24V	12V	24V	24V	24V	48V	
Consumption no load(ON)	\$4W	≤5W	≤5W	≤8W	≤5W	≤6W	≤8.5W	≤10W	≤12W	
Consumption no load (Saving)	≤2W	≤2W	≤2W	≤2W	≤2W	≤2.5W	≤3W	≤3W	\$4W	
Input voltage range	10.5~16V	21~32V	10.5~16V	21~32V	10.5~16V	21~32V	21~32V	21~32V	42~64V	
Output voltage		AC220V/230V±3%								
Confinuous power	200	200W		300W		500W		100	DW	
Power 10sec	300	W 450W		σw	750W		1050W	150	1500W	
Power 1.5sec	400	W.	600W		1000W		1400W	200	WO	
Surge power	64	DW	96	OW 1600W		2240W	320	3200W		
Output mode					Single phase					
Wave form				F	ure Sine Wa	ve				
Frequency					50Hz±0.2%					
Distortion THD (resistive load)	≤3%	s2%	≤3%	≤2%	≤5%	≤2%	≤3%	≤3%	≤2%	
Efficiency at rated power	≥81%	≥85%	≥81%	≥87%	≥81%	≥87%	≥87%	≥87%	≥89%	
Max. efficiency	≥88%	≥89%	≥90%	≥91%	≥91%	≥93%	≥93%	≥93%	≥94%	
Dimension	315×16	3×101mm 315×186×101m		×101mm	325×187×112mm		335×232 ×123.3mm	373×232×123.3mm		
Net weight	4.5	4.5kg 5.3kg				7:3kg 9.4kg 11.8kg				
Enclosure	IP30									
Working temperature		-20℃~+50℃								

