

COSUPER



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COSUPER

COSUPER
PRODUCTS & SOLUTIONS



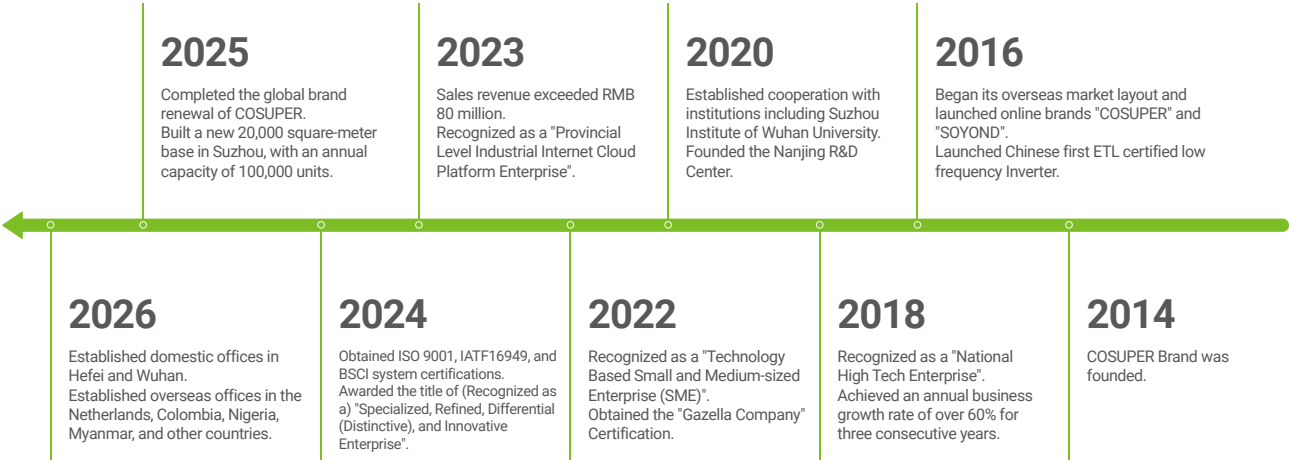
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About Cosuper Energy

- Cosuper Energy, established in 2014 and headquartered in the Suxiang Cooperation Zone of Suzhou, is a new energy technology company specializing in independent energy storage solutions. The company focuses on three major sectors: residential, portable, and vehicle energy storage, and has built a comprehensive technology chain covering power generation, energy storage, intelligent control, and energy management. Its products are sold to more than 50 countries and regions worldwide.
- Driven by technological innovation, Cosuper Energy holds over 80 patents and software copyrights, with R&D personnel accounting for more than 30% of its total employees. The company has obtained more than 20 international certifications, including ISO9001, IATF16949, and BSCI, while its products are approved by authoritative certifications such as CCC, CE, ETL, and the National Compulsory Inspection etc. It has also been recognized as a National High-Tech Enterprise, a Gazelle Enterprise, and an SME with specialized and innovative capabilities. The core products are highly regarded in markets including Europe, the United States, Middle East, Southeast Asia, and South Africa for their high compatibility and reliability.
- To strengthen its global competitiveness, Cosuper Energy has established a new smart manufacturing base covering 20,000 square meters, equipped with fully automatic production lines and adhering to automotive-grade quality control standards. The self-developed rate of core components reaches 80%. Moving forward, Cosuper Energy will leverage a dual-engine strategy of "technology + smart manufacturing" to build a benchmark brand for global independent energy storage systems, contributing green power to the global energy transition.

Milestones



Brand Advantages

With consumers' needs as the goal, we follow the idea of "researching one generation, reserving one generation, and mass - producing one generation", strengthen technology decomposition and R & D capabilities, and quickly promote the engineering, productization and marketization of technologies. We keep getting closer to users, and our company's technical products and solutions have unique advantages, providing consumers with high - quality products and continuously bringing surprises to users.

30%

R&D Intensity

80+

Intellectual property and patents.

All-Scenario Solutions

Residential | C&I | RV | Portable

Scalable Manufacturing

20,000 m² Suzhou Base
100K Units/Year Capacity.

End-to-End Care Worry-Free

Consulting · Design
Delivery · Long-term O&M



Quality



Testing



Manufacturing



After - sales



Design



R&D

Honorary Qualifications

Intellectual property rights are the core asset of Cosuper Energy, a vital manifestation of innovation capability, and also a barrier for independent innovation. We actively conduct all - round layout and protection of the intellectual property system, publicize and increase the value of intellectual property rights through branding, and promote innovation through intellectual property protection.



- Utility model patents: 40 +



- Invention patents: 20 +



- Enterprise certification certificates: 10 +



- Foreign patents: 10 +

Global Strategy

Cosuper Energy has 4 major business segments: residential storage, PV-storage-diesel microgrids, vehicle-mounted systems, and mobile energy storage.

It covers the entire process from energy harvesting and storage to utilization. Through the supply of green technologies and products, and the promotion of the concept of green energy, it helps green energy be widely used worldwide, striving to cool the Earth by 1°C and promoting the sustainable development of humanity.

Mission and Pursuit

By leveraging the strength of the collaborative innovation team and focusing on improving technical quality, we continuously open up market space, efficiently meet customer needs, and create a large - value cycle ecosystem.

Driving Cosuper Energy to move towards the world and become a benchmark enterprise in the global independent energy storage system field.

Mission
Values

Lead and create energy storage to build a low - carbon life.

Collaboration, innovation, efficiency, and focus.

Vision

Global independent energy storage solution provider.

Cumulative green power generation (10,000 kWh)

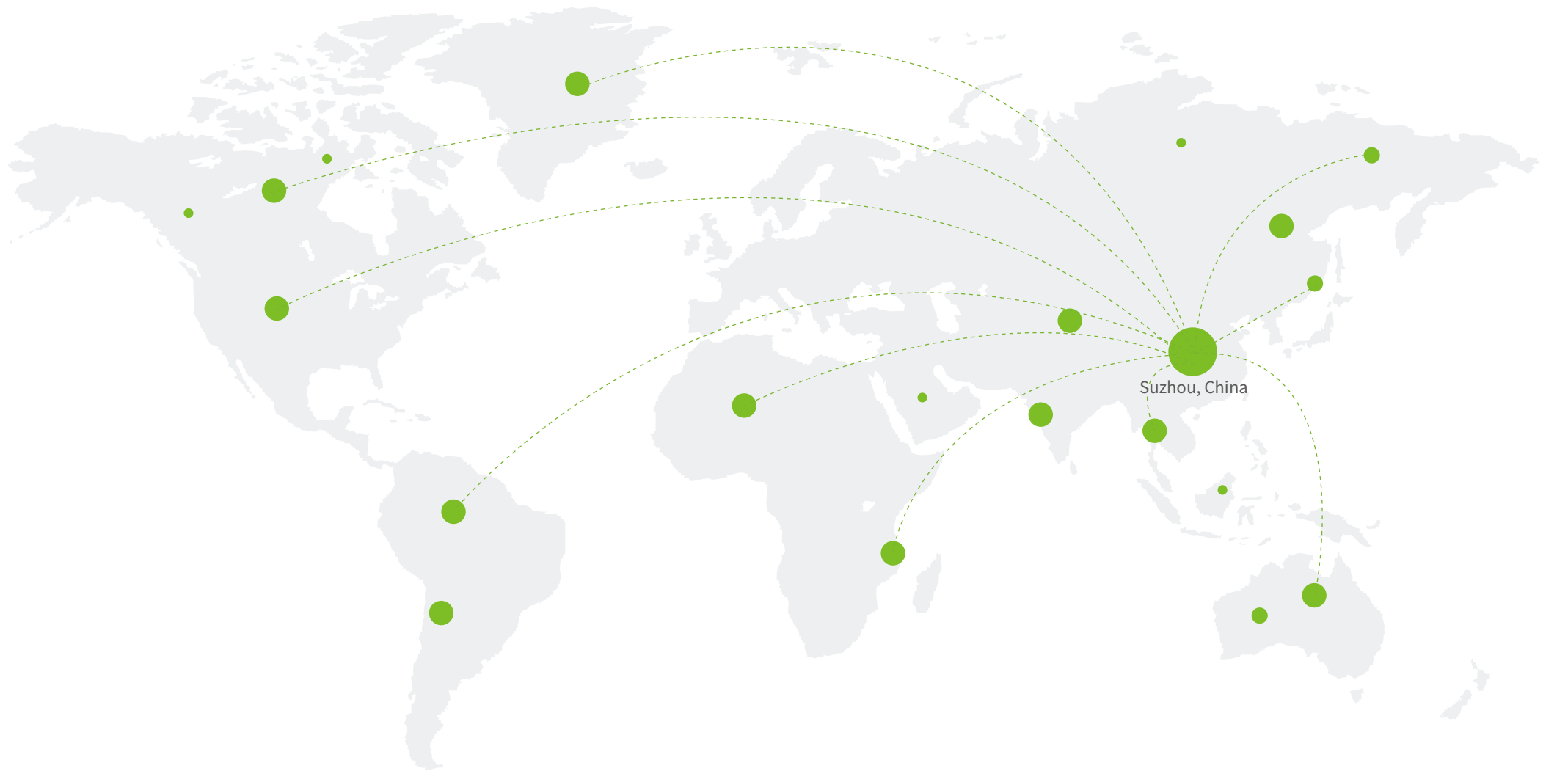
1500+

Equivalent CO2 emission reduction (10,000 tons)

30+

Equivalent number of trees planted (10,000 trees)

7.7+



Vehicle-mounted Energy Storage



RV Solution



Low-speed Vehicle Solution



Marine Solution



Special Application Solution



12V RV Solution

The original factory is equipped with a matched electrical system, avoiding design space and cost; low-voltage is safer, reducing the risk of electric shock; low energy consumption, simple and intelligent; integrated wiring is simple, with high reliability; standardized components reduce maintenance costs, adapting to diversified and customizable needs.

Extreme Safety

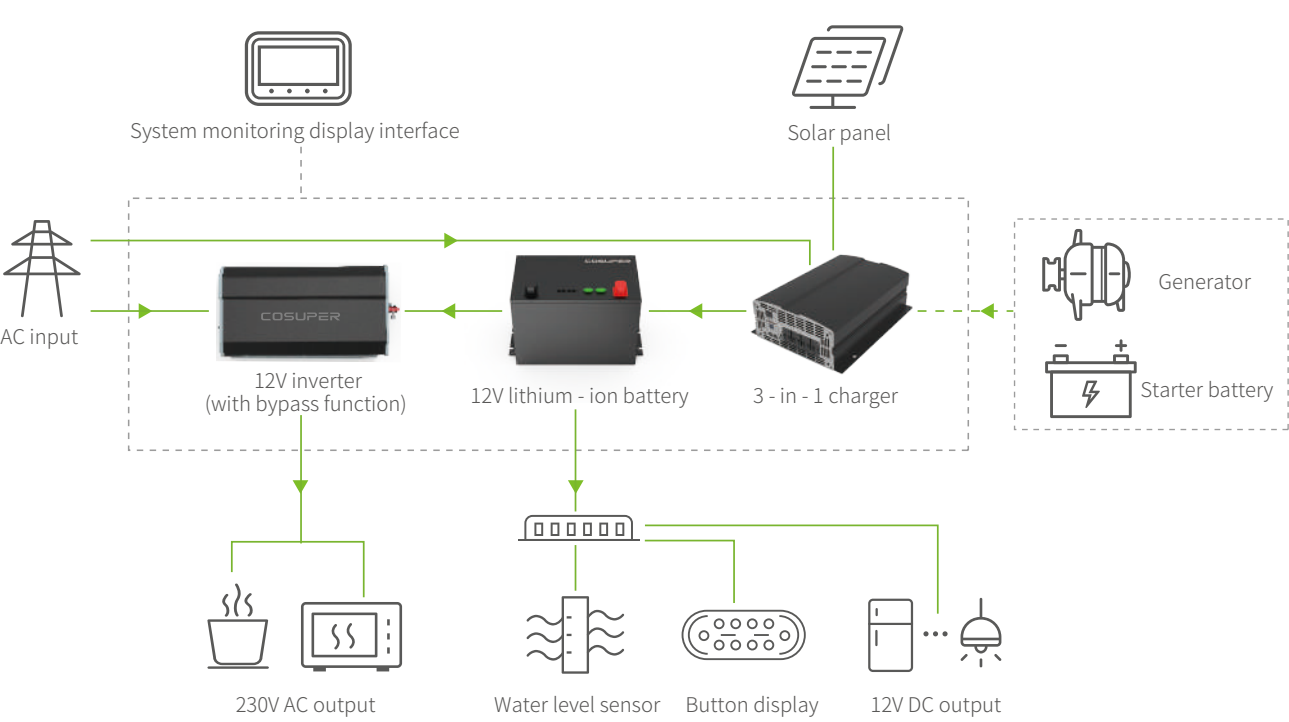
- Ultra-thin long-life lithium iron phosphate battery
- 12V system recommended configuration power: 1.2 - 2.2kWh
- Multiple protection mechanisms
- Higher safety level - the battery is lighter and easier to carry, reducing the risk of battery pack thermal runaway

Extreme Operation

- RV status at a glance,integrated control and minimalist physical buttons
- Adjust the power usage attitude at will on the mobile app,All-in-one machine, 5G communication to create a timely supply model

Extreme Safety

- The motor can be highly efficient in any scenario,Single crystal module + MPPT charging



48V RV Solution

The 48V power system is the latest and most innovative next-generation RV power solution. Compared with the traditional 12V power system, the 48V power system has higher efficiency, with an energy conversion efficiency increase of 23.5%. Moreover, with 48V as the main force and the reduction of auxiliary batteries, the internal wiring of the vehicle is simpler and easier to operate.

Extreme Safety

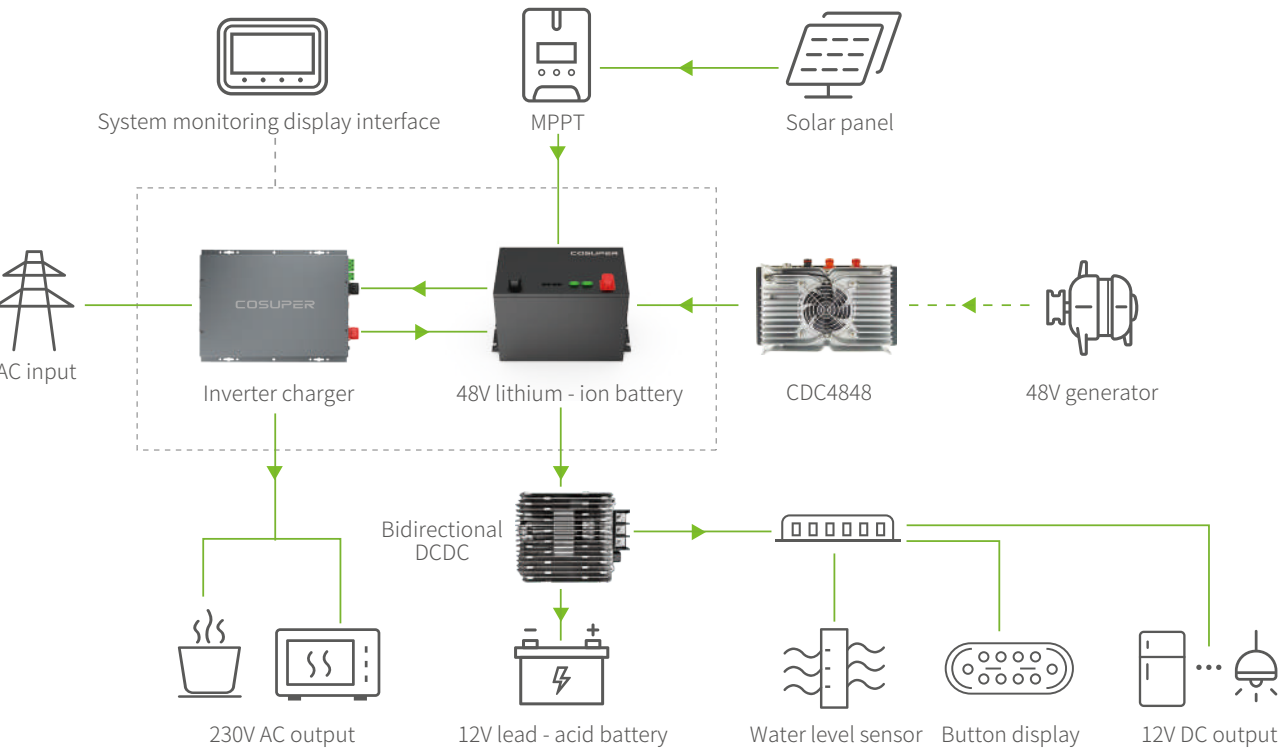
- Ultra-thin long-life lithium iron phosphate battery, 48V system recommended configuration power: 2.4 - 5.0kWh
- Multiple protection mechanisms, higher safety level - the battery is lighter and easier to carry, reducing the risk of battery pack thermal runaway

Extreme Operation

- RV status at a glance; integrated online load data charts; mobile app online status monitoring
- Adjust the in-vehicle endurance at will Black coating is more integrated, 48V 3.3KVA precise configuration)

Better Experience

- The motor can be highly efficient in any scenario,Single crystal module + MPPT charging
- Adjust the power usage attitude at will on the mobile app) ,All-in-one machine, 48V 3.3KVA precise configuration



One-stop RV Solution

- Rooted in the Market

We always adhere to “meeting and exceeding market demands” as the goal of product design and R & D. All product series meet the usage requirements of various RV platforms. While ensuring safety, we provide customers with a long - lasting and durable using experience.

- Expertise in Manufacturing

With 10 years of production service experience, we offer complete manufacturing support for RV power systems of different standards worldwide. We have product certifications such as SAA, C - Tick, E - Mark, and ETL globally. We possess rich manufacturing experience in the standardization and diversification of domestic RV power sources.

- Committed to Quality

High - quality products themselves can provide customers with reliable and efficient support. Our top - notch and reliable products bring extremely high added value to Chinese RVs, service vehicles, and other special vehicles. They guarantee customers the use of AC and DC power sources in various environments.



W12 Series -L2L





Automotive-Grade Lithium Iron Phosphate Battery



Intelligent Management System



Long Service Life, Safe and Reliable



High Cycle Life

Product Overview

- Excellent long-cycle performance and wide temperature adaptability: Under 80% Depth of Discharge (DoD) and 0.5C discharge rate, the cycle life exceeds 3600 times with a capacity retention rate over 80%. Meanwhile, it adapts to a wide discharge operating temperature range of -20°C to 60°C.
- Outstanding safety and environmental properties: Leveraging the high thermal stability of lithium iron phosphate, it withstands extreme conditions like overcharge, short circuit, impact, and high temperature without combustion or explosion risks. With a fully enclosed design, no harmful gases are released during use.

- Cycle life of up to 3600 cycles at 0% Depth of Discharge (DoD)
- High-current charging and discharging capability
- Ultra-low self-discharge
- Excellent temperature adaptability
- Operable in a temperature range of -20°C to 60°C

W12 Series -L2L Specifications

MODEL	W12-100LF	W12-150LF	W12-200LF
Type of electric core	Lithium iron phosphate		
Rated capacity(0.5C)	100Ah	150Ah	200Ah
Rated power	1.28kwh	1.92kwh	2.56kwh
Rated voltage	12.8V		
Operating voltage range	10.8V-14.4V		
Maximum continuous charging current (25°C)	50A	75A	100A
Maximum continuous discharge current (25°C)	100A	150A	200A
Maximum charging voltage	14.4V		
Charging temperature range	-20-55°C		
Discharge temperature range	-20-55°C		
Storage temperature range	-20-60°C@50%SOC		
Battery heating mode	Charging heating		
Number of cycles (0.5C ,25°C)	3600 circle @80DoD		
Degree of protection	IP54		
Size(mm)	260*168*220	305*170*215	490*172*245
Weight	10kg	15kg	20kg

12.8V-314Ah

LFP Battery System



Automotive - grade Lithium Iron Phosphate Battery



Intelligent Heating System



Long - lifespan, Safe and Reliable



Intelligent Charging System

Overview

The LFP Battery System are specifically designed for RVs, camping cars, caravans, trailers, or any other special vehicles. Lithium iron phosphate batteries (LiFePO) are a better choice compared to AGM batteries, as they offer superior performance and a longer service life.

Meanwhile, lithium iron phosphate batteries are much smaller in size and lighter in weight. Therefore, they can meet the ever - growing power supply demands of vehicles. Lithium iron phosphate batteries are a safe energy storage solution. With the help of the Battery Management System (BMS), the W48 battery can continuously supply power to on - board devices, improving energy conversion efficiency and ensuring safety.

- Cycle life of up to 3600 times at 0% Depth of Discharge (DOD)
- Ultra - low self - discharge
- High - current charging and discharging
- Excellent temperature adaptability
- Battery Management System (BMS) communication function
- Can operate in a temperature environment ranging from - 20°C to 60°C

12.8V-314Ah Product Introduction

	12.8V-314Ah
Nominal voltage	12.8V
Nominal capacity	314Ah Standard discharge after Standard charge (package)
Minimum capacity	314Ah
Energy	4.02KWh
Cycle Life	≥1500 cycles @ 0.2C charge/discharge, capacity retention ≥80% @ 25°C
Charge Voltage	14.6V
Charge Mode	0.3C to 14.6V,then 14.6V,charge current to 0.02C(CC/CV)
Charge Current	200A
Continuous Current	200A
Peak discharge current	250A/5min
Discharge Cut-off Voltage	10.8V
Heat	With heating (150W), conventional heating logic
Display	10m remote control display
Communication	CAN
Parallel	Support 6 (Support remote screen operation: One-click shutdown of all batteries)
Charge Temperature	-20 °C to 50 °C @60±25% Relative Humidity
Discharge Temperature	-20 °C to 55 °C @60±25% Relative Humidity
Storage Temperature	0 °C to 40 °C @60±25% Relative Humidity
Dimension	367*183*248mm
Weight(kg)	/
IP rating	IP67

W12-400L

12V Lithium Battery



Automotive - grade Lithium Iron Phosphate Battery



Intelligent Heating System



Long - lifespan, Safe and Reliable



Intelligent Charging System

Overview

The W12 series batteries are specifically designed for RVs, camping cars, caravans, trailers, or any other special vehicles. Lithium iron phosphate batteries (LiFePO) are a better choice compared to AGM batteries, as they offer superior performance and a longer service life.

Meanwhile, lithium iron phosphate batteries are much smaller in size and lighter in weight. Therefore, they can meet the ever - growing power supply demands of vehicles. Lithium iron phosphate batteries are a safe energy storage solution. With the help of the Battery Management System (BMS), the W48 battery can continuously supply power to on - board devices, improving energy conversion efficiency and ensuring safety.

- Cycle life of up to 3600 times at 0% Depth of Discharge (DOD)
- Ultra - low self - discharge
- High - current charging and discharging
- Excellent temperature adaptability
- Battery Management System (BMS) communication function
- Can operate in a temperature environment ranging from - 20°C to 60°C

W12-400L Product Introduction

MODEL	W12-400L
Rated Voltage	12.8V
Rated Capacity	410 Ah
Rated Energy	5120Wh
Battery Type	LiFePO4
Number of Cells	3.2V 205Ah 8PCS
Cell Configuration	4S2P
Overcharge Protection Voltage	14.6Vdc
Overdischarge Protection Voltage	10.8Vdc
Rated Charging Current (Room Temperature)	80A
Maximum Charging Current (Room Temperature)	150A
Overcharge Protection Release	Discharge / Voltage Recovery
Operating Temperature Range	-10~+55°C, At 50±25%RH
Output Voltage Range	10.8 - 14.6Vdc
Rated Discharging Current (Room Temperature)	200A
Maximum Discharging Current (Room Temperature)	300A
Overdischarge Protection Release	Charge / Voltage Recovery
Protection Class	IP20
Parameters	
Overcharge Protection	3750mV@1s
Overcharge Protection Release	3550mV
Overcharge Release Method	Cell 3550mV or Discharge
Overdischarge Protection	2200mV@5s
Overdischarge Protection Release	2700mV
Overdischarge Release Method	Cell 2700mV or Charging
Overcurrent Protection (Charging)	800~850A
Overcurrent Protection (Discharging)	370A@20ms
Overcurrent Release Method (Charging)	Remove Charger
Overcurrent Release Method (Discharging)	Disconnect Load
Over-temperature Protection	Protection at 70°C / Release at 50°C
Over-temperature Protection	Protection at 85°C / Release at 64°C
Packaging	
Single Unit Dimensions (L×W×H, mm)	470x325x340mm
Shipping Dimensions (L×W×H, mm)	500x355x3370mm
Net Weight (N.W.)	65Kg
Gross Weight (G.W.)	68Kg

W48-100L

48V Lithium Battery



Automotive - grade Lithium Iron Phosphate Battery



Intelligent Heating System



Long - lifespan, Safe and Reliable



Intelligent Charging System

Overview

The W12 series batteries are specifically designed for recreational vehicles (RVs), camper vans, caravans, trailers, and any other specialty vehicles. Lithium iron phosphate batteries (LFP) are a superior alternative to AGM batteries, boasting better performance and a longer lifespan.

Additionally, LFP batteries are significantly smaller and lighter. As a result, they can meet the increasing power supply requirements of vehicles. These batteries represent a safe energy storage solution. With the Battery Management System (BMS), the W48 battery can continuously power on-board devices, enhance energy conversion efficiency, and ensure safety.

- Cycle life of up to 3600 cycles at 0% Depth of Discharge (DOD)
- High-current charging and discharging capability
- Battery Management System (BMS) communication function
- Ultra-low self-discharge
- Excellent temperature adaptability
- Operable in a temperature range of -20°C to 60°C

W48-100L Product Introduction

MODEL	W48-100L
Rated Voltage	12.8V
Rated Capacity	100 Ah
Rated Energy	1280Wh
Battery Type	LiFePO4
Number of Cells	3.2V 100Ah 4PCS
Cell Configuration	4S1P
Overcharge Protection Voltage	14.6Vdc
Overdischarge Protection Voltage	10.8Vdc
Rated Charging Current (Room Temperature)	50A
Maximum Charging Current (Room Temperature)	100A
Overcharge Protection Release	Discharge / Voltage Recovery
Operating Temperature Range	0 - 60°C
Output Voltage Range	10.8 - 14.6Vdc
Rated Discharging Current (Room Temperature)	100A
Maximum Discharging Current (Room Temperature)	120A
Overdischarge Protection Release	Charge / Voltage Recovery
Protection Class	IP20
Parameters	
Overcharge Protection	3750mV@1s
Overcharge Protection Release	3550mV
Overcharge Release Method	Cell 3550mV or Discharge
Overdischarge Protection	2200mV@5s
Overdischarge Protection Release	2700mV
Overdischarge Release Method	Cell 2700mV or Charging
Overcurrent Protection (Charging)	320A@1s
Overcurrent Protection (Discharging)	370A@20ms
Overcurrent Release Method (Charging)	Remove Charger
Overcurrent Release Method (Discharging)	Disconnect Load
Over-temperature Protection	Protection at 70°C / Release at 50°C
Over-temperature Protection	Protection at 85°C / Release at 64°C
Packaging	
Single Unit Dimensions (L×W×H, mm)	280*213*228.5 ± 2mm
Shipping Dimensions (L×W×H, mm)	340*273*285mm
Net Weight (N.W.)	14.5kgs
Gross Weight (G.W.)	16.5kgs

HIG3000

High - Frequency Charging and Inverting Integrated Machine



Pure Sine Wave Output



Supports Up To 3000w Ac Charging



93% High Conversion Efficiency



Small In Size And Light In Weight

Overview

Born for your power needs, the pure sine wave inverter charger, with its advanced design, becomes a reliable power partner for families, small apartments, RVs, trailers, and other scenarios.

It can stably output pure sine wave AC power, matching a variety of electrical equipment. When there is no electricity from the grid; when there is no grid power, it can use the battery to charge, with multiple charging modes, suitable for AGM, GEL, flooded, tubular batteries and other battery types. The built-in transfer switch is more secure. When the grid power is interrupted, it automatically switches to battery power supply, ensuring the continuous operation of the load.

Equipped with an easy-to-use hand-held device, adding a sense of security for the use of equipment, and making the start-up quick, stable, and the electrical energy more pure.

- Supports CAN BUS/CI - BUS communication.
- Supports up to 3000W AC charging power, suitable for AGM (absorbed glass mat battery), GEL (gel battery), Flooded (flooded battery), Lithium (lithium battery).
- Low total harmonic distortion (THD), can work stably with sensitive loads
- Has high temperature working adaptability.
- Ultra - wide voltage range, 100% continuous output in the range of 25 - 50°C
- Low no-load power consumption, energy-saving

HIG3000 Product Introduction

Type		HIG3000
Type		
Inverter Mode		
Rated Output Power		3000W
Maximum Starting Power		9000W
AC Output Voltage		220V
Frequency		50±1Hz
Efficiency		
Maximum Efficiency		94.5%
Input		
Battery Voltage		12V
Nominal Battery Voltage		10.5V±0.2V
Maximum Charging Voltage		15V±0.2V
Charger Mode		
Output		
Maximum Charging Power		2500W
Floating Voltage		14.4V (Lead - acid), 14.6V (Lithium)
Equalization Voltage		13.8V (Lead - acid), 14.4V (Lithium)
Input		
Grid Voltage		154Vac - 264Vac
Frequency		47 - 53Hz
Power Factor		>0.95 (RMS)
Other		
No-load Loss		9W (typical value)
Ambient Temperature		25°C~+50°C
Storage Temperature		-25°C~+65°C
Dimensions (L×W×H)		430x268x105mm
Weight		7.6kg
Protection Functions	Output over - voltage, input over - voltage/under - voltage, over - temperature, reverse connection	

SCH BP

Bypass Inverter



Pure Sine Wave Output



Ac bypass function



93% High Conversion Efficiency



Supports High Overload and Surge

Overview

With pure sine wave output, whether it's coffee makers, microwave ovens, TVs, satellite receivers, printers or other heavy - duty devices, the SCH power inverter can perform outstandingly when powering everything from home appliances to office equipment loads. The SCH1000 and SCH2000 models comply with the Federal Communications Commission (FCC) Class A regulations, which can eliminate the possibility of interference with other equipment. And the UL 458 standard means that the SCH series have strict input (60V) and safety certifications. This inverter is easy to install and suitable for use in RVs.

- Pure sine wave output, can power various loads from home appliances to office equipment
- External LED remote control, equipped with a 5 - meter remote control cable
- Independent heat dissipation design, reducing main board temperature
- High overload capacity, can provide peak power to start inductive loads
- 93% high conversion efficiency
- 24 - month warranty

SCH BP Technical Parameters

Model	SCH1000	SCH1500	SCH2000	SCH3000
Output Power	1000W	1500W	2000W	3000W
Surge Power	2000W	3000W	4000W	6000W
Standby Power	9W	9.5W	12W	15W
DC Input Voltage	12, 24 or 48VDC			
DC Input Adjustment	10.5 - 15VDC (×2 for 24VDC; ×4 for 48VDC)			
Output Voltage	100/110/120VAC ±3%; 220/230/240VAC ±5%			
Output Frequency	50/60Hz ±0.05%			
Output Waveform	Pure sine wave (Total harmonic distortion < 3%)			
AC Input Voltage	100/110/120VAC ±3%; 220/230/240VAC ±5%			
AC Input Frequency	50/60Hz ±0.05%			
Power Factor	0.8-1			
Efficiency (110V)	92%	92%	93%	92%
Efficiency (230V)	93%	93%	93%	93%
Control and Signal Indication				
Fault Indication	Red LED lights up and beeps for alarm			
Working Indication	Green LED lights up			
Remote Control	Can be matched with CR10 or CR11 (DBS battery isolator adaptable)			
Battery Types	AGM, Sealed Lead - Acid, Gel, Open - mouth Lead - Acid, Lithium Iron Phosphate			
Protection Functions	Overload, Input Over - voltage/Under - voltage, Over - temperature, Short - circuit			
Safety Standards	AS/NZS 4763:2011, UL458, LVD(EN60950)			
General Parameters				
Operating Temperature	-10 - 45°C			
Operating Humidity	20 - 90% RH			
Storage Temperature	-30 - 70°C			
Cooling Method	Auto - temperature - controlled fan			
Weight (kg)	3.2	3.5	4.6	5.8
Dimensions (mm)	376x254x119	416x254x119	457.5x254x119	572x254x119

SCH

Pure sine wave inverter



Pure Sine Wave Output



Maximum Support for 3000W AC Charging



93% High Conversion Efficiency



Supports High Overload and Surge

Overview

All inverters in the SCH series are pure sine wave inverters. Pure sine wave inverters are the ideal choice for medical equipment and sensitive electrical appliances. Different from modified sine wave inverters, pure sine wave inverters ensure that electrical appliances run without interference, and various electronic precision equipment can also operate stably. Electrical appliances that cannot work properly on modified sine wave inverters can run smoothly on pure sine wave inverters.

- Pure sine wave output, can power various loads from home appliances to office equipment
- External LED remote control, equipped with a 5 - meter remote control cable
- Independent heat dissipation design, reducing main board temperature
- High overload capacity, can provide peak power to start inductive loads
- 93% high conversion efficiency
- 24 - month warranty

SCH Technical Parameters

Model	SCH300	SCH600	SCH1000	SCH1500	SCH2000	SCH3000
Input Voltage	12/24VDC	12/24VDC	12/24/48VDC	12/24/48VDC	12/24/48VDC	12/24/48VDC
Input Current (Maximum DC Current)	30A	60A	100A	150A	200A	300A
No - load Current Consumption	500mA	500mA	700mA	700mA	900mA	1100mA
Remote Standby Current Consumption	1mA	1mA	1mA	1mA	1mA	1mA
Output Voltage	100/110/120VAC ±5%; 220/230/240VAC ±3%					
Continuous Power (Watt)	300W	600W	1000W	1500W	2000W	3000W
Peak Power (Watt)	600W	1200W	2000W	3000W	4000W	6000W
Input DC Voltage Range (Volt)	10.5 - 15VDC (×2 for 24VDC; ×4 for 48VDC)					
Output Waveform	Pure Sine Wave (THD < 3%)					
Efficiency	86.5 - 93.5%					
Low Battery Voltage Alarm/Shutdown	Alarm at 10.5VDC; Shutdown at 10.0VDC (×2 for 24VDC; ×4, + 0.3VDC for 48VDC)					
Cooling Fan	Automatic Temperature Control					
Overheat Shutdown	65°C (±5°C)					
General Parameters						
Fuse Replacement	Blade Fuse					
Fuse Specification	50A (2x25A)	80A (4x20A)	160A (4x40A)	200A (4x50A)	240A (4x60A)	360A (4x90A)
Fuse Location	Internal					
Dimensions (mm)	237x150x81	237x150x81	237x150x81	351x170x96	236x463x111	236x463x111
Weight (kg)	1	1.5	2.9	3.2	4.3	5.5

CMP-W30B

MPPT Solar Charge Controller



Wide Voltage Range 17-45V



High Input Power Max 460W



Supports Charging of Different Types of Batteries



Multiple Communication Methods CAN/LIN/Bluetooth

Overview

Suitable for MPPT (Maximum Power Point Tracking) solar charge controllers of high - end RVs, caravans, fifth - wheel trailers, camper-vans and yachts.

Based on MPPT technology, this solar charge controller has more advantages in charging efficiency compared with traditional controllers, with performance improved by 10% - 30%. Especially in seasons with less sunlight throughout the year, such as in winter or in weather conditions with frequent cloudy days or weak sunlight (off - season for power generation).

- Supports multiple battery types: Gel battery / Vented or AGM lead - acid battery / Lithium - ion battery
- Adopts the most advanced MPPT technology
- Supports dual - battery charging for vehicle - mounted start - stop batteries and living batteries
- Compact size
- Bluetooth function
- The charging current for start - stop batteries is 3A

CMP-W30B Product Introduction

Model	15A	30A
PV Input Power	50 - 250W	50 - 460W
PV Voltage Range	17V - 45V	17V - 45V
Charging		
Battery Type	WET/LFP/GEL/AGM	WET/LFP/GEL/AGM
Rated Charging Current	15A	30A
Rated Battery Voltage	12V	12V
Fuse Included	20A	40A
Protection		
Charging Stages	Lead - acid (4 stages) / Lithium - ion battery (2 stages) (Common)	
Input Under-Voltage Protection - Cut-off Point	15.5±1VDC	
Input Under-Voltage Protection - Recovery Point	17.0±1VDC	
Input Over-Voltage Protection - Cut-off Point	46.0±1VDC	
Input Over-Voltage Protection - Recovery Point	45.0±1VDC	
Battery Under-Voltage Protection - Cut-off Point	10.0±1VDC	
Battery Under-Voltage Protection - Recovery Point	11.0±1VDC	
Battery Over-Voltage Protection - Cut-off Point	15.0±1VDC	
Battery Over-Voltage Protection - Recovery Point	14.0±1VDC	
Output Over-Voltage - Handling Method	Reduce current / Cut off output	
Short-Circuit - Output Short-Circuit	Cut off output, restore after short - circuit recovery	
General		
Communication Mode	CAN Bus and LIN	
Bluetooth Function	Yes	
Operating Temperature	-20 - 40°C	
Storage Temperature	-25 - 65°C	
Operating Humidity	0 - 95% No condensation	
Dimensions (W x D x H)	131x77.6x54.9mm	
Weight	300g	
Package Dimensions (W x D x H)	150x100x60mm	

DMP25/DMP50

DCDC+MPPT charging controller



Wide Voltage Range 14.5 - 45V



High Input Power Max 800W



95% High Conversion Efficiency



Multiple Protection Mechanisms

Overview

It features both Direct Current/Direct Current (DC/DC) and Maximum Power Point Tracking (MPPT) charging modes, with a built - in intelligent chip. During the charging process, it automatically detects the input voltage and adjusts the charger load in a timely manner. The intelligent temperature control system can detect the internal and external temperatures of the charger and the battery at any time. When abnormal temperatures occur, it automatically reduces the load to mitigate risks. Strict material selection and advanced production technology endow the product with excellent shock - proof, moisture - proof, and anti - corrosion capabilities, ensuring the product operates well in more complex working environments and continuously supplies power for RVs!

- DC/DC + Maximum Power Point Tracking (DCDC + MPPT) dual charging modes
- Built - in intelligent chip: Adjusts the charger load in real - time during charging
- Supports various batteries such as lithium batteries, lead - acid batteries, and gel batteries
- Intelligent temperature control system: Detects the internal and external temperatures of the charger and the battery at any time

DMP25/DMP50 Product Introduction

Not using "IGNITION" (not connecting to ACC)	DMP50 12V	DMP50 24V	DMP25 12V	DMP25 24V
CH3: Starter Battery (Original Vehicle Battery Input Channel) Start after charging at 25V(5 seconds later); Stop charging when the voltage is less than 24.6V±0.2V				
Voltage Range	10.5-16Vdc	21-32Vdc	10.5-16Vdc	21-32Vdc
Voltage System Identification	<17Vdc	>17Vdc	<17Vdc	>17Vdc
Normal Starting Voltage	>13.5Vdc	>26.4Vdc	>13.5Vdc	>26.4Vdc
Overvoltage Protection Point	>16V	>31.5V	>16V	>31.5V
Overvoltage Recovery Point	<16V	<31.5V	<16V	<31.5V
Undervoltage Protection Point	<13Vdc	<21Vdc	<13Vdc	<21Vdc
Undervoltage Recovery Point	>13.5Vdc	>26.4Vdc	>13.5Vdc	>26.4Vdc
CH2: Solar Array (Photovoltaic Input Channel)				
Voltage Range	14.5-45Vdc			
Undervoltage Protection Point	<14.1Vdc			
Undervoltage Recovery Point	>14.5Vdc			
Overvoltage Protection Point	>48V			
Overvoltage Recovery Point	<45V			
Maximum Power	When input is less than 23V, 500W(maximum 600W); When input is between 37.5V and 45V, it is 750W(maximum 800W).			
CH1: RV Battery (Living Battery Channel)				
Battery Type	AGM/GEL/FLOODED/LITHIUM			
Output Voltage	13.8-15.5Vdc	23-29Vdc	13.8-15.5Vdc	23-29Vdc
Overvoltage Protection	16Vdc	29Vdc	16Vdc	29Vdc
Overvoltage Recovery	15.5Vdc	28.5Vdc	15.5Vdc	28.5Vdc
Output Current	5/10/15/20/25/30/ 35/40/45/50A	5/10/15/20/25A	5/10/15/20/25/30/ 35/40/45/50A	5/10/15/20/25A
Output Power	775W	710W	775W	710W
Leakage Current	≤50mA	≤50mA	≤50mA	≤50mA
Efficiency	95%	95%	95%	95%
BTS				
Temperature Detection	If it is a non-lithium battery, set it to "nor" and disconnect the sensor.			
REMOTE				
Remote Communication	CAN			
Use "IGNITION" (connect to ACC)				
CH3: Starter battery (input channel of the original vehicle battery)				
Normal Starting Voltage	>12.5V	>24.6V	>12.5V	>24.6V
Charging Logic	If input voltage >12.5V/24.6, start charging after 5 seconds; if input voltage ≤10.5V/21V±0.1V, stop charging.			

CCP-50

Vehicle-mounted Three-in-one Charger



- Three different charging methods
- Supports charging for different types of batteries
- Intelligent temperature control system
- Supports lithium - battery communication

Overview

Supported battery types: Absorbed Glass Mat (AGM) batteries, gel batteries, flooded batteries, and lithium - ion batteries.

Built - in intelligent chip: Automatically detects the input voltage during charging and timely adjusts the charger load.

Intelligent temperature control system: Continuously monitors the internal and external temperatures of the charger and the battery. When the temperature is abnormal, it automatically reduces the load to minimize risks and hazards.

Strict material selection and advanced manufacturing processes endow the product with excellent shock - resistance, moisture - resistance, and corrosion - resistance capabilities, ensuring reliable operation in more complex working environments.

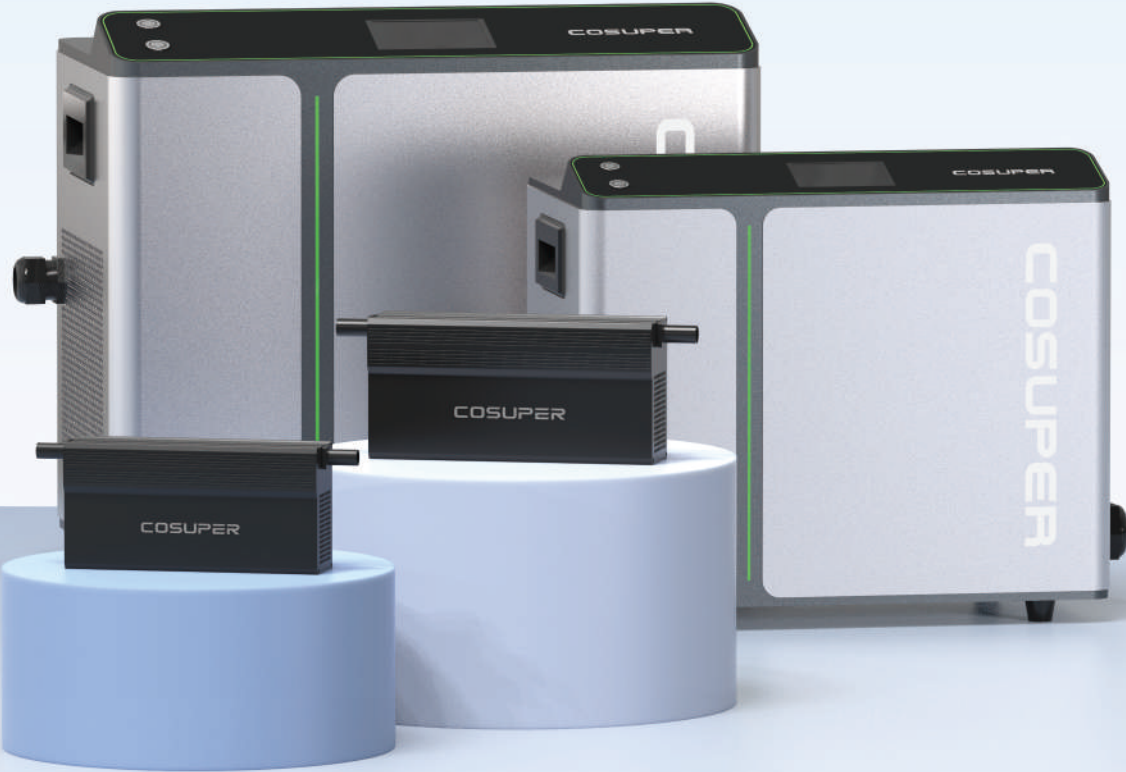
- Three charging modes: DC, DC + Maximum Power Point Tracking (MPPT), and AC.
- Built - in intelligent chip: Real - time adjustment of the charger load during charging.
- Supports multiple battery types including lithium - ion batteries, lead - acid batteries, and gel batteries.
- Intelligent temperature control system: Continuously monitors the internal and external temperatures of the charger and the battery.

CCP-50 Product Introduction

Starter Battery & Original Vehicle Battery Input Channel		CPP-50
Voltage Range		10.5 - 16Vdc
Voltage System Identification		< 17.1Vdc
Normal Starting Voltage		> 13.4Vdc
Under - voltage Protection Point		< 10.2Vdc
Under - voltage Recovery Point		> 13.3Vdc
Photovoltaic (PV) Panel Input Channel		
Voltage Range		17.2 - 70Vdc
Under - voltage Protection Point		< 16Vdc
Under - voltage Recovery Point		> 17.1Vdc
Over - voltage Protection Point		> 75.2V
Over - voltage Recovery Point		< 70V
Efficiency		86%
Household Battery Channel		
Battery Type		AGM/GEL/ rich liquid type/lithium battery
Output Voltage		13.8-15.5Vdc, typical value: 12V, minimum :8V
Over - voltage Protection		16Vdc
Over - voltage Recovery		15.5Vdc
Output Current		5/10/15/20/25/30/35/40/45/50A
Output Power		775W
Leakage Current		≤ 50mA
Efficiency		95%
Ac input channel		
AC Input Voltage		90Vac~260Vac
Frequency		50/60Hz
Under - voltage Protection Point		265Vac
Under - voltage Recovery Point		240Vac
Over - voltage Protection Point		80Vac
Over - voltage Recovery Point		90Vac
Charging Voltage		14.4/13.9Vdc
Charging Current		5/10/15/20/25/30/35/40/45/50A
Charging Power		720W
BTS		
Temperature Detection		Operating temperature description: When there is no lithium battery, set to normal and disconnect the sensor
Remote		
Remote		CAN

Charger for Low-Speed Lithium Powered Vehicles

CK series chargers for low - speed electric vehicles adopt an integrated lightweight structure;
Suitable for charging lithium - ion batteries of low - speed electric vehicles (electric bicycles, electric tricycles, A0 - class small cars, etc.).



CK Series Chargers Chargers for Low - Speed Lithium - Powered Vehicles

Model	CK-1000FP	CK-2000FP	CK-2000F
Model	 1.0Kw Charger2.0Kw Charger2.0Kw Charger		
Overall Dimensions (Length × Width × Height) mm	225x108x60	225x140x70	225x140x70
Maximum Output Current (A)	17 15 12	30 26 23	80 60 40
Rated Output Power (W)	1000W	2000W	2000W
Input Voltage (VAC, Typical Value)	200~240	200~240	200~240
Output Voltage	48 60 72	48 60 72	12 24 36
Applicable Battery Voltage	48 60 72	48 60 72	12 24 36
Maximum Efficiency	≥92%		
Output Voltage Regulation Accuracy	±1%		
Output Current Accuracy	±1%		
Operating Temperature	-20~45℃		
Protection Class	IP21		
Cooling Method	Forced Air Cooling		
Protection Functions	OVP/OTP/Short Circuit Protection/Under Voltage Protection		
Battery Reverse Polarity Protection	After reverse connection, the charger alarms; after correct wiring, it recovers automatically		
Trickle Activation Function for Depleted Batteries	When detecting too low battery voltage, perform trickle charging to activate the battery		

Waterproof Charger for Low - Speed Lithium - Powered Vehicles

Model	CK-1000WP	CK-2000WP	CK-3300WP
Model	1.0Kw Charger 2.0Kw Charger 3.3Kw Charger		
Overall Dimensions (Length × Width × Height) mm	281x128x80	282x168x95	282x168x95
Maximum Output Current (A)	17 15 12	23 26 30	50 35 35
Rated Output Power (W)	1000W	2000W	3300W
Input Voltage (VAC, Typical Value)	200~240	200~240	200~240
Output Voltage	48 60 72	72 60 48	48 60 60
Applicable Battery Voltage	48 60 72	72 60 48	48 60 60
Maximum Efficiency	≥92%		
Output Voltage Regulation Accuracy	±1%		
Output Current Accuracy	±1%		
Operating Temperature	-20~45°C		
Protection Class	IP67		
Cooling Method	Radiation cooling + air cooling		
Protection Functions	OVP/OTP/Short - circuit protection/Under - voltage protection		
Battery Reverse Polarity Protection	After reverse connection, the charger alarms; after correct wiring, it automatically recovers.		
Trickle Activation Function for Depleted Batteries	When detecting that the battery voltage is too low, perform trickle charging to activate the battery.		

CK Series Chargers
Charger for Electric Industrial Vehicles (Fixed - type)

Model	CK-5000FP	CK-20KFP	CK-120KFP
	5.0Kw Charger 20Kw Charger 120Kw Charger		
Model Name	5.0Kw Charger	20Kw Charger	120Kw Charger
Overall Dimensions(mm)	386x169x360	472x452x597	720x520x1700
Maximum Output Current (A)	60 80 100	300 200	250
Rated Output Power (W)	3600 4800 6000	10KW 20KW	120
Input Voltage (VAC, Typical Value)	380V±15% Three-Phase Four-Wire		
Power Factor	/	/ /	≥0.99
Current Total Harmonic Distortion (THD)	/	/ /	THDi≤5
Output Voltage	65	65 100	200 - 750
Applicable Battery Voltage	48V120 - 180AH 48V160 - 240AH 48V200 - 300AH	48 80	200 - 400V Voltage platform
Maximum Efficiency	≥92%		≥96%
Output Voltage Regulation Accuracy	±1%		±0.5%
Output Current Accuracy	±1%		±1%
Operating Temperature	-15~45°C		-40~70°C
Protection Class (IP Rating)	IP21		IP54
Cooling Method	Air Cooling		
Protection Functions	OVP/OTP/Short Circuit Protection/Under-Voltage Protection		
Battery Reverse Polarity Protection	After reverse connection, the charger alarms; automatically recovers when wired correctly.		
Trickle Activation Function for Depleted Batteries	When detecting excessively low battery voltage, perform trickle charging to activate the battery.		/

W60 Series

Vehicle-mounted lithium iron phosphate battery pack



- Automotive - grade Lithium Iron Phosphate Battery
- 9% High Output Efficiency
- Long - lifespan, Safe and Reliable
- Intelligent Charging System

MODEL	W60-40L	W60-50L	W60-60L
Cell Type	LiFePO4		
Rated Voltage	60V		
Rated Capacity	40AH	50AH	60AH
Rated Energy	2.4kwh	3kwh	3.6kwh
Output Efficiency	99%	99%	99%
State of Charge Retention	99%	99%	99%
Continuous Discharge Current @25°C	40A	50A	60A
Maximum Discharge Current	45A,30S	55A,30S	65A,30S
Low Voltage Alarm Voltage	52.25V		
Low Voltage Cut - off/Protection Voltage	47.5V		
Low Voltage Recovery Voltage	55.1V		
Continuous Charge Current @25°C	40A, 10A recommended	50A, 10A recommended	60A, 15A recommended
Maximum Charge Current	40A	50A	60A
Over - charge Protection Voltage	69.35V		
Over - charge Recovery Voltage	66.5V		
Discharge Operating Temperature	-20-60°C		
Charge Operating Temperature	0-55°C		
Storage Temperature	-20-45C@50%SOC shutdown storage		
Dimensions (Length * Width * Height)/mm	375*180*320	415*195*380	415*195*380
Weight	20kg	24kg	26kg

W72 Series

Vehicle-mounted lithium iron phosphate battery pack



- Automotive - grade Lithium Iron Phosphate Battery
- 9% High Output Efficiency
- Long - lifespan, Safe and Reliable
- Intelligent Charging System

MODEL	W72-105L	W72-150L
Cell Type	LiFePO4	
Rated Voltage	72V	
Rated Capacity	105AH	
Rated Energy	7.56kwh	10.8kwh
Output Efficiency	99%	
State-of-Charge Retention	99%	
Continuous Discharge Current @25°C	105A	150A
Maximum Discharge Current	200A,10S	300A,10S
Low-Voltage Alarm Voltage	63.25V	
Low-Voltage Cut-off/Protection Voltage	57.5V	
Low-Voltage Recovery Voltage	66.7V	
Continuous Charge Current @25°C	100A,推荐30A	150A,推荐50A
Maximum Charge Current	100A	150A
Overcharge Protection Voltage	83.95V	
Overcharge Recovery Voltage	80.5V	
Discharge Operating Temperature	-20-60°C	
Charge Operating Temperature	0-55°C	
Storage Temperature	-20-45°C@50%SOC shutdown storage	
Dimensions (Length*Width*Height)/mm	870±1mmx220±1mmx312±1mm	
Weight	67kg	87.5kg

Application Cases of Vehicle-mounted Energy Storage



 **Vehicle-mounted Integrated Power Distribution System**
Foreign aid medical vehicle (mobile diagnosis and treatment)

Customer requirement:
Provide solutions to outdoor station power supply problems
Core components:
Inverter, energy storage battery, mains power distribution



 **Vehicle-mounted Integrated Power Distribution System**
Foreign aid medical vehicle (mobile diagnosis and treatment)

Customer requirement:
The vehicle is equipped with precision medical instruments, which require stable AC and DC power supply
Core components:
Inverters, energy storage batteries, and municipal power distribution



 **48V RV Solution**
Well-known RV modification factory

Customer requirement:
48V self-propelled RV power system
Core components:
Photovoltaic panels, inverters, energy storage lithium batteries, etc



 **Special Vehicle Solution**
Well-known automobile modification factory

Customer requirement:
Reliable power supply for lighting, communication, and alarm systems
Core components:
Inverter, energy storage battery, etc.

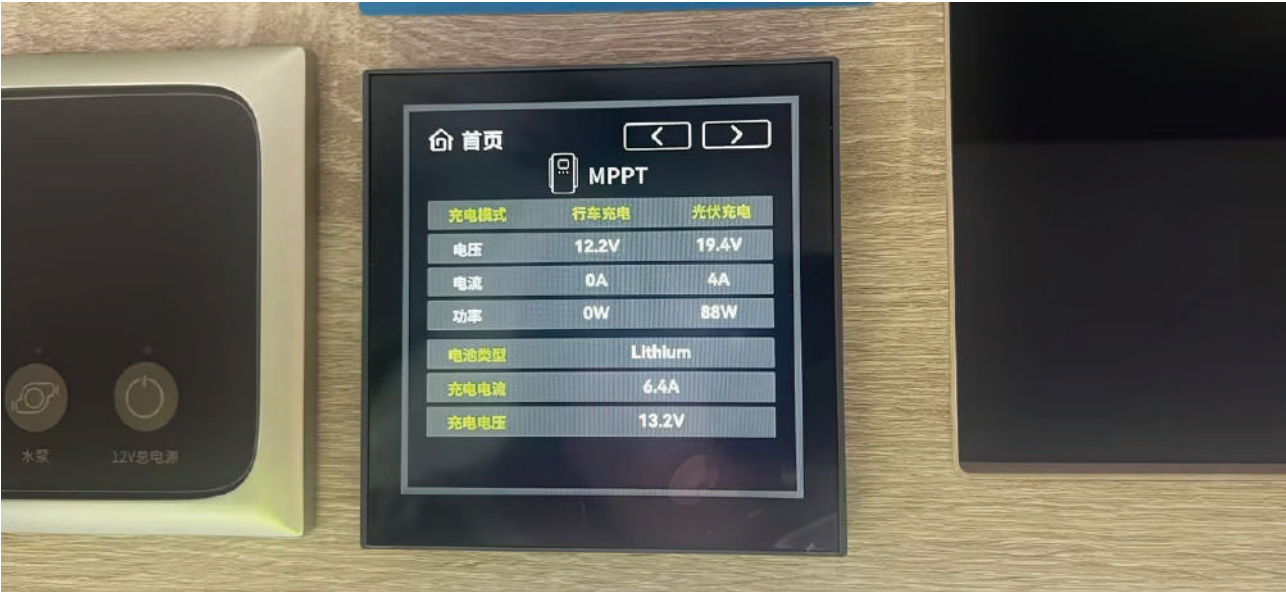
Application Cases of Vehicle-mounted Energy Storage



Renowned domestic RV conversion company



Vehicle-mounted Integrated Power Distribution System



RV Central Control System



Vehicle-mounted Integrated Power Distribution System

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