



Technology by
South Korea

GSP PRODUCT

Automotive starter Battery

RV Battery

Marine Boat

Golf cart / AGV / LEV Battery

Solar Street LED Battery

Energy Storage Battery

Industrial Battery etc

MPPT Solar Charger

DC TO AC Inverter / Charger

DC TO DC Charger

GSP BATTERY®
Energy Storage Solutions

INTRODUCTION

GSP,

Professional Manufacturer who makes standards for
Iron phosphate batteries.

As a leading lithium battery manufacturer, we continue to develop differentiated products to meet the specific needs of our customers and provide energy storage solutions with high-quality, stable products based on lithium iron phosphate, lithium ion, lithium polymer, and lithium titanium.



Developing and manufacturing batteries with expertise for more than two decades

ISO 9001:2015 MANUFACTURE CENTER

Our battery production manufacturing team boasts over two decades of extensive experiences and expertise in the dynamic field of lithium batteries. We are well-versed in advanced principles such as lean operation and ISO 9001 management concepts. This wealth of knowledge forms the foundation of our reputation for delivering lithium batteries known for their unwavering commitment to safety, consistent quality, And high-performance standards.

Selected best BMS technology company for three consecutive years

R&D CENTER

GSP's BMA & BATTERY PACK R&D center collaborates closely with multiple universities, customer research institutes, and international organizations. This collaborative effort is dedicated to the development of highly safe and practical Battery Management System (BMS) and cell balancing technologies.

Through these partnerships, we've formulated effective battery evaluation and supplementation strategies, ensuring a high level of safety and practical implementation of BMS systems. Our focus extends to incorporating both active and manual cell balancing technology, enhancing the overall performance and safety of our battery solutions.



Innovation

GSP has a variety of years of experience in development and manufacture technology, including batteries for EVs, LEVs, ESS (Energy Storage System), UPS, dash-cams, forklifts, emobility transportation and utility vehicles, cleaning equipment & robots, Marine, guide & trolling motors, golf carts, RVs, buggies, aerial lifts, scissor lifts, medical devices, drones, Hydrogen power packs, vehicle starter batteries, automation systems and so many more. GSP Battery Korea Co.,Ltd was selected 'Best technology Company' by the National NICE evaluation information service for three consecutive years (2017, 2018, 2019. Recognized for its technology and innovation in battery and systems thermal & energy management and structural strength design.

CERTIFICATION



LifePO4 high-quality cylindrical CELL with enhanced stability

Safety high cylinder Cell

GSP Battery's LiFePO batteries are crafted using premium cylindrical cells, providing Outstanding stability when compared to prismatic and polymer counter parts. Our design ensures optimal efficiency in self-discharge and supports high charge & discharge rates and better thermal dissipation.

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GSP is recognized worldwide for its strict quality control and automation

Flexibility & Quality Manufacturing

GSP Battery Korea Co.,Ltd is equipped to meet both mass production needs and Custom orders for batteries, battery packing, and energy storage related products.

We continuously update our machinery coupled with modular lean manufacturing segment lines which enables us to adapt swiftly to diverse orders. This ensures efficiency and precision, catering the specific requirements of all our clients and partners, both domestically and internationally.



LiFePO₄ BATTERY

SINCE 2009, MADE IN KOREA

Semi-permanent Lithium Iron phosphate battery

Lightweight, long lifespan, low self-discharge rate with high discharge and charge rate

A LiFePO₄ battery has a life about 10 times longer than that of Lead-Acid batteries, so it is the most economical battery. Also, it is easy to install with twice as light weight and small volume. LiFePO₄ batteries have about twice the energy density compared to their weight, have no memory effect, so there is no degradation in capacity, can be charged fast, and have a low self-discharge rate, so they can be used for a long period of time.



Strong durability

Safer against fires and explosions with durability at extreme temperatures.

GSP lithium iron phosphate batteries are the safest among existing batteries in the market and does not engulf in flames or emit gases. Ensuring a high degree of safety and also can be used in extreme temperature ranges (-20°C to 60 °C).



Eco-friendly, non-toxic

Eco-friendly, non-toxic no harmful substances and can be reused.

LiFePO₄ batteries are safe by using eco-friendly raw materials that do not contain harmful substances such as high concentrations of sulfuric acid, and are safe because there is no risk of hydrogen leaking out during overcharging and performance does not drop sharply in high or low temperature environments.



Dash Cam Battery Pack Smart Slim Pro

LiFePO4 Smart Slim Pro

Smart Slim Pro GSP is dedicated dash cam battery pack.

It is thin slim in size that can be installed in a small space when attached to car. In addition, Smart Slim Pro products with bluetooth function enable you to operate the functions of the battery pack on your smart phone.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	Smart Slim Pro 12A
Capacity	12.8V 12,000mAh
Usage time (160mA)	About 75 hour
Usage time (320mA)	About 38 hour
Input	DC 12V~15V, (5A or 10A)
Output	DC 12V~14.6V (Max. 10A)
Full charge time	About 70 minutes of driving
Weight	About 2kg
Size(L X W X H)	213 X 164 X 39

L : length, W : width, H : height



Model	Smart Slim Pro 18A
Capacity	12.8V 18,000mAh
Usage time (160mA)	About 113 hour
Usage time (320mA)	About 56 hour
Input	DC 12V~15V, (5A or 10A)
Output	DC 12V~14.6V (Max. 10A)
Full charge time	About 110 minutes of driving
Weight	About 2.8kg
Size(L X W X H)	279 X 164 X 39

Driving Charger

DC-DC charging via vehicle & truck alternator while driving. Alpha charge technology allows continuous charge despite varying output Amps with CC/CV function for fast, efficient 100% battery charging



High Density

Safety protection	BMS
Max efficiency	> 90%
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	TANK CIGAR CHARGER
Input	type. DC 12V~15V (Max. 12A)
Charging voltage current	DC 14.6V 7.5A (LIFEPO4) DC 12.6V 10A (LI-ION) Option
Charging Mode	CC / CV mode
Weight	About 238g
Size(L X W X H)	135 X 84 X 33

L : length, W : width, H : height



Model	Alpha Charger 12V 30A
Input	Type. DC 12.5V~15V (Max. 40A)
Charging voltage current	DC 14.6V Max.30A
Charging Mode	CC / CV mode
Weight	About 600g
Size(L X W X H)	133.5(166.5) X 150(174) X 49

Model	Alpha Charger 12V 60A
Input	Type. DC 25V~30V (Max. 70A)
Charging voltage current	Type. DC 12.5V~15V (Max. 70A)
Charging Mode	CC / CV mode
Weight	About 1.2kg
Size(L X W X H)	226(259) X 150(174) X 49



Model	Alpha Charger 24V 30A
Input	Type. DC 25V~30V (Max. 40A)
Charging voltage current	DC 29.2V Max.30A
Charging Mode	CC / CV mode
Weight	About 800g
Size(L X W X H)	133.5(166.5) X 150(174) X 49

Model	Alpha Charger 24V 50A
Input	Type. DC 25V~30V (Max. 70A)
Charging voltage current	DC 29.2V~60V Max. 60A
Charging Mode	CC / CV mode
Weight	About 1.5kg
Size(L X W X H)	226(259) X 150(174) X 49

LiFePO₄ STARTING BATTERY

Safety protection	BMS
Max efficiency	> 90%
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃

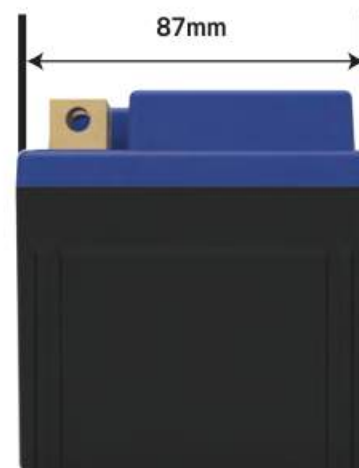


High Density

LFP 12V 8A

The LFP 12V 8A battery delivers optimal performance, leveraging its powerful output and safety features. Its stable power supply allows it to operate various equipment in diverse industrial and everyday applications.

Item	Specification
Nominal Voltage / Capacity	12.8V 8Ah
Charging Voltage	Max 14.2V
Charging Method	Constant Current / Constant Voltage
Discharging Cut off Voltage	10V
Standard Charge Current	6A
Standard Discharge Current	6A
Max. Continuous Charge Current	18A
Max. Continuous Discharge Current	30A
Cycle Life	2000Cycle, 80%
Charge Temperature	0℃ ~ 60℃
Discharge Temperature	-20℃ ~ 60℃
Operating Humidity	60± 25% RH
Storage Temperature(Less than 3 months)	-20℃ ~ 35℃
Weight(g)	TBD About 0.8kg
Dimension(mm)	150 X 87 X 93



4th Generation LiFePO4 Automotive Starter Battery^(STD)

GSP 4th Generation Automotive Starter X-Power Battery is a product combining a **high-output lithium iron phosphate (LiFePO4) battery**, **active balancing (cell balancing function)**, and **Bluetooth connectivity** into a single unit. It is the world's first automotive starter LiFePO4 battery that supports 1 to 3 emergency starts even when the battery is discharged.



Smart X-power Bluetooth Mobile



Smart X-power Bluetooth Mobile

Safety protection	BMS
Structure	LiFePO4 & Active balancing
Self discharge rate	2% ↓ / month
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	XP 60
CCA / Rated voltage	600A / 12.8V
Charging voltage	14.6V
Capacity	60Ah 768Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 7.5kg
Size(L X W X H)	230 X 174 X 200(219)

L : length, W : width, H : height



Model	XP 80
CCA / Rated voltage	800A / 12.8V
Charging voltage	14.6V
Capacity	80Ah 1,024Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 9.5kg
Size(L X W X H)	260 X 175 X 201(220)



Model	XP 100
CCA / Rated voltage	800A / 12.8V
Charging voltage	14.6V
Capacity	100Ah 1280Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 12.5kg
Size(L X W X H)	306 X 174 X 200(220)



Model	XP 120 MINI
CCA / Rated voltage	900A / 12.8V
Charging voltage	14.6V
Capacity	120Ah 1,536Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 13.5kg
Size(L X W X H)	306 X 174 X 200(220)

4th Generation LiFePO4 Automotive Starter Battery^(DIN)

GSP 4th Generation Automotive Starter X-Power Battery is a product combining a **high-output lithium iron phosphate (LiFePO4) battery, active balancing (cell balancing function), and Bluetooth connectivity** into a single unit. It is the world's first automotive starter LiFePO4 battery that supports 1 to 3 emergency starts even when the battery is discharged.



Smart X-power Bluetooth Mobile



Smart X-power Bluetooth Mobile

Safety protection	BMS
Structure	LiFePO4 & Active balancing
Self discharge rate	2% ↓ / month
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	XP 60 DIN
CCA / Rated voltage	600A / 12.8V
Charging voltage	14.6V
Capacity	60Ah 768Wh
Post type / Polarity	DIN / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 7.5kg
Size(L X W X H)	230 X 174 X 200(219)

Model	XP 80 DIN
CCA / Rated voltage	800A / 12.8V
Charging voltage	14.6V
Capacity	80Ah 1,024Wh
Post type / Polarity	DIN / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 9.5kg
Size(L X W X H)	260 X 175 X 201(220)

L : length, W : width, H : height



Model	XP 100 DIN
CCA / Rated voltage	800A / 12.8V
Charging voltage	14.6V
Capacity	100Ah 1,280Wh
Post type / Polarity	DIN / L , R type type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 12.5kg
Size(L X W X H)	318 X 176 X 187

Model	XP 120 DIN
CCA / Rated voltage	900A / 12.8V
Charging voltage	14.6V
Capacity	120Ah 1,536Wh
Post type / Polarity	DIN / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 13.5kg
Size(L X W X H)	355 X 175 X 188

LiFePO4 Starter Battery for Trucks

GSP LiFePO4 starter battery for trucks is the world's first new concept LiFePO4 starter battery, combining high-output lithium iron phosphate and a supercapacitor (voltage stabilizer).



Safety protection	BMS
Structure	LiFePO4 & Supercapacity
Self discharge rate	2% ↓ / month
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	XP 4G SMART TS 120 TRUCK START BATTERY
CCA / Rated voltage	900A / 12.8V
Charging voltage	14.6V
Capacity	120Ah 1,536Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 13.5kg
Size(L X W X H)	330 X 173 X 216



Smart X-power Bluetooth Mobile



Model	XP 4G SMART TS 150 TRUCK START BATTERY
CCA / Rated voltage	1,200A / 12.8V
Charging voltage	14.6V
Capacity	150Ah 2,190Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Active Balancing
Charging speed	Fast charging
Weight	About 18.5kg
Size(L X W X H)	330 X 173 X 216



Smart X-power Bluetooth Mobile

LiFePO4 Starter Battery for Trucks

GSP LiFePO4 starter battery for trucks is the world's first new concept LiFePO4 starter battery, combining high-output lithium iron phosphate and a supercapacitor (voltage stabilizer).



Safety protection	BMS
Structure	LiFePO4 & Active balancing
Self discharge rate	2% ↓ / month
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	XP TS 200 TRUCK START BATTERY
CCA / Rated voltage	1,200A / 12.8V
Charging voltage	14.6V
Capacity	200Ah 2,560Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Supercapacity
Charging speed	Fast charging
Weight	About 25kg
Size(L X W X H)	506 X 220 X 205(228)



Model	XP TS 250 TRUCK START BATTERY
CCA / Rated voltage	1,200A / 12.8V
Charging voltage	14.6V
Capacity	250Ah 3,200Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Supercapacity
Charging speed	Fast charging
Weight	About 27kg
Size(L X W X H)	520(530) X 267 X 220



Model	XP TS 300 TRUCK START BATTERY
CCA / Rated voltage	1,400A / 12.8V
Charging voltage	14.6V
Capacity	300Ah 3,840Wh
Post type / Polarity	STD / L , R type
Structure	LiFePO4 & Supercapacity
Charging speed	Fast charging
Weight	About 35kg
Size(L X W X H)	520(530) X 267 X 220

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger

LifePO4 powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO4 battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



Strong Durability

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



L : length, W : width, H : height

Model	AIO 600
Norminal voltage	12.8V
Capacity	60Ah 768Wh
Charger Input	Max. 14.2V 30A (recommended current Max. 20A)
Cigar Charger Input	DC 11V~15V (Max.10A)
Cigar Charging Current	Max. 7A
AC Wave form	120V or 220V 50/60Hz 2Port(Sum. Max. 600W)
AC Output power	Pure sine wave inverter
DC Output	XT-90 male (Max. 90A 1Port) (recommended current Max. 70A) QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 1Port DC jack (5.5Φ*2.1Φ) 60W 1Port
Weight	About 7.60kg
Size(L X W X H)	463 X 114 X 221

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



BMS control possible



Low Self Discharge Rate



L : length, W : width, H : height

Model	ALL IN ONE 100A Alpha Charger
Norminal voltage	12.8V
Capacity	100Ah 1,280Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A (384W) built-in driving charger 30A Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 50A (recommended current Max. 20A)
AC Wave form	220V, 60Hz 2Port(Sum. Max. 2,000W)
AC Output power	Pure sine wave inverter
AC Remote SW	GX16-3PIN Male (internal specifications)
DC Output	XT-90 male (Max. 90A 3Port) (recommended current Max. 70A) QC 3.0 (USB-A 2Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 3A(36W) 2Port Cigar 12V Max. 10A(120W) 1Port DC jack (5.5Φ*2.1Φ) 60W 2Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 19.5kg
Size(L X W X H)	517 X 241.4 X 186.4

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger



LifePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



Strong Durability

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	ALL IN ONE 210A Alpha Charger
Normal voltage	12.8V
Capacity	210Ah 2,688Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A (384W) built-in driving charger 30A Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 100A (recommended current Max. 40A)
AC Wave form	220V, 60Hz 2Port(Sum. Max. 2000W)
AC Output power	Pure sine wave inverter
AC Remote SW	GX16-3PIN Male (internal specifications)
DC Output	High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 1Port) (recommended current Max. 70A) QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 3Port DC jack (5.5φ*2.1φ) 60W 1Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 31kg
Size(L X W X H)	562 X 186.4 X 241.4

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger



LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



BMS control possible



Low Self Discharge Rate



Model	ALL IN ONE 300A Alpha Charger
Normal voltage	12.8V
Capacity	300Ah 3,840Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A or 60A (384W) or (768W) Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 150A (recommended current Max. 40A)
AC Wave form	220V, 60Hz 2Port(Sum. Max. 2000W)
AC Output power	Pure sine wave inverter
AC Remote SW	GX16-3PIN Male (internal specifications)
DC Output	High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 1Port) (recommended current Max. 70A) QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 3Port DC jack (5.5φ*2.1φ) 60W 1Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 41.4kg
Size(L X W X H)	757 X 186.4 X 241.4

built-in driving charger
30A or 60A

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weather. Whenever electricity is needed, GSP power stations enhance convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

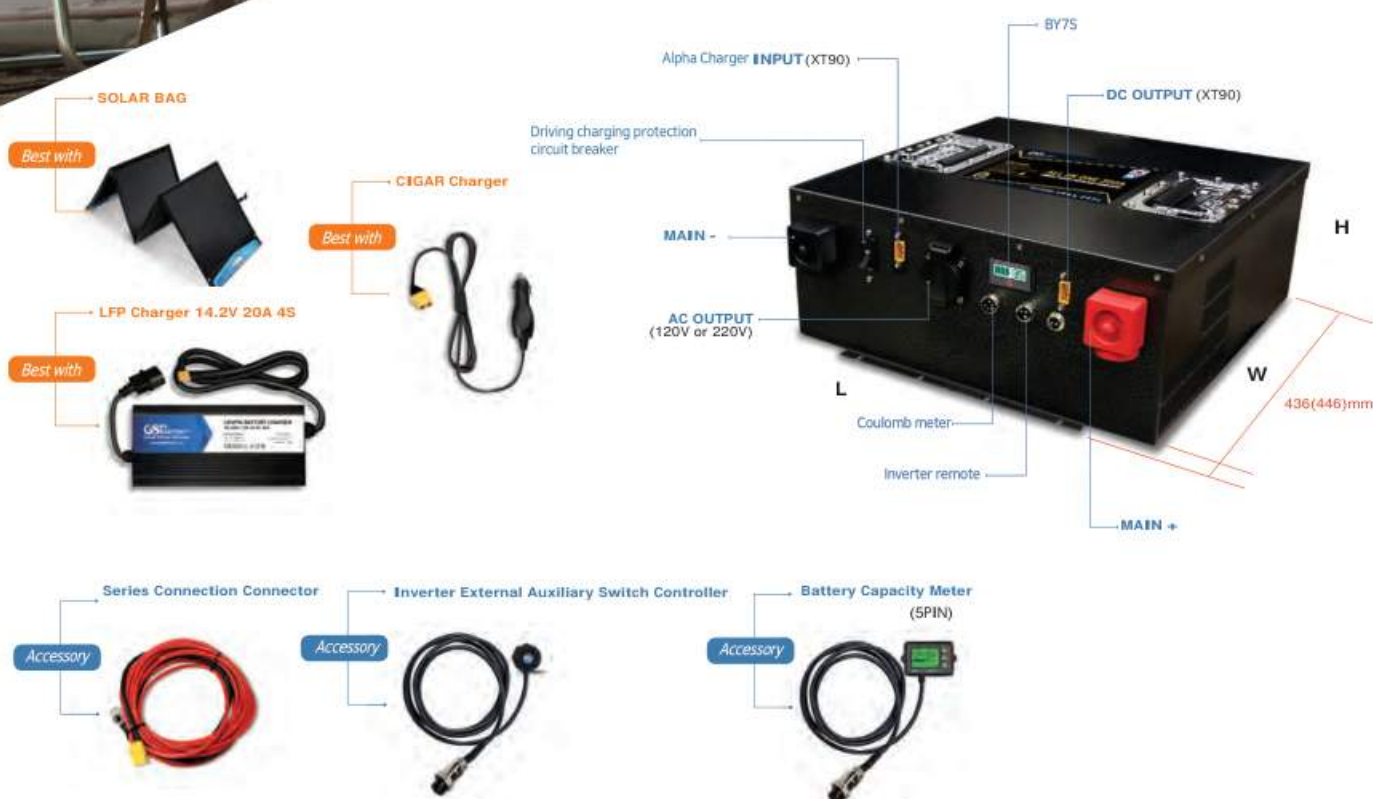


High Density



Strong Durability

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



L : length, W : width, H : height

Model	ALL IN ONE 300A C type Alpha Charger	
Norminal voltage	12.8V	
Capacity	300Ah 3,840Wh	
Alpha Charger Input(XT-90 Male)	Driving Charging :	12.5V~15V Max. 30A or 60A (384W) or (768W)
	Solar panel :	12.5V~30V, Max. 15A (192W)
	Cigar :	12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 150A (recommended current Max. 40A)	
AC Wave form	220V, 60Hz 1Port(Sum. Max. 2000W)	
AC Output power	Pure sine wave inverter	
AC Remote SW	GX16-3PIN Male (internal specifications)	
DC Output	High current terminal (10V~14.6V (Max.200A))	
Coulometer	Include : BY7S	
	Ext : GX16-5PIN Male (internal specifications)	
Weight	About 46kg	
Size(L X W X H)	450 X 436(466) X 187	

built-in driving charger
30A or 60A

LiFePO₄ All in one Power Station

With built-in DC-DC driving charger

LifePO4 powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO4 battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

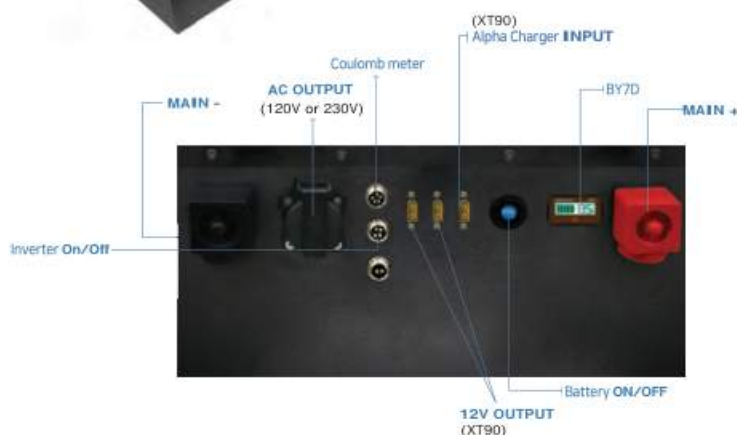
Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



BMS control possible



Low Self Discharge Rate



L : length, W : width, H : height

Model	ALL IN ONE 300A E type Alpha Charger
Normal voltage	12.8V
Capacity	300Ah 3,840Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 60A (768W) built-in driving charger 60A Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 150A (recommended current Max. 40A)
AC Wave form	220V, 60Hz 1Port(Sum. Max. 3000W)
AC Output power	Pure sine wave inverter
AC Remote SW	GX16-3PIN Male (internal specifications)
DC Output	High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 2Port) (recommended current Max. 70A)
Coulometer	Include : BY7S Ext : GX16-5PIN Male (internal specifications)
Weight	About 47kg
Size(L X W X H)	850 X 280 X 227

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



Safe & Durable

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



L : length, W : width, H : height

Model	CAMPER-D 100C Alpha Charger
Normal voltage	12.8V
Capacity	100Ah 1,280Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A (384W) built-in driving charger 30A Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 50A (recommended current Max. 20A) High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 1Port) (recommended current Max. 70A)
DC Output	QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 2Port DC jack (5.5Φ*2.1Φ) 60W 2Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 13.9kg
Size(L X W X H)	463 X 114 X 221

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LifePO4 powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO4 battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



Strong Durability



Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



L : length, W : width, H : height

Model	CAMPER-D 210C Alpha Charger	
Normal voltage	12.8V	
Capacity	210Ah 2,688Wh	
Alpha Charger Input(XT-90 Male)	Driving Charging :	12.5V~15V Max. 30A or 60A (384W) or (768W) built-in driving charger 30A
	Solar panel :	12.5V~30V, Max. 15A (192W)
	Cigar :	12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 100A (recommended current Max. 40A)	
DC Output	High current terminal (10V~14.6V (Max.200A))	
	XT-90 male (Max. 90A 2Port) (recommended current Max. 70A)	
	QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port	
	Cigar 12V Max. 10A (120W) 3Port	
Coulometer	DC jack (5.5Φ*2.1Φ) 60W 1Port	
	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)	
Weight	About 28kg	
Size(L X W X H)	562 X 186.4 X 241.4	

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability



Low Self Discharge Rate

Battery coulomb meter indicator



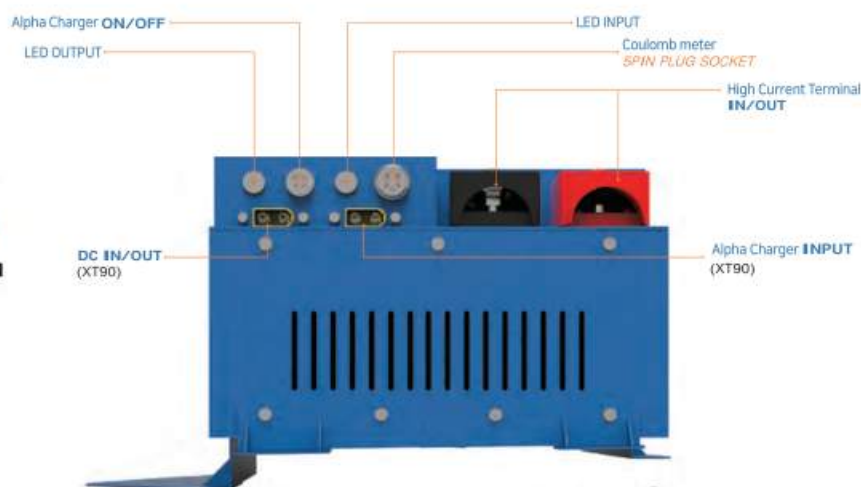
4 types of brackets



two way switch



ALL IN ONE MULTI PANEL



L : length, W : width, H : height

Model	CAMPER-D 230C
Norminal voltage	12.8V
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A or 60A (384W) or (768W) Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
(양방향) Bi-directional	DC 14.6V Max.30A built-in driving charger 30A or 60A/Bi-directional 30A
Charger Input	Max. 14.2V 100A (recommended current Max. 40A)
DC Output	XT-90 male (Max. 90A 1Port) (recommended current Max. 70A)
Coulometer	Include : BM703(Current of 350A sampler) Max. 14.6V 100A (recommended current Max. 40A)
Weight	About 30.2kg
Size (L X W X H)	480(538) X 240(361) X 150(185.4)

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LifePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃

Series Connection Connector

Accessory



LFP Charger 14.2V 20A 4S

Best with



CIGAR Charger

Best with



SOLAR BAG

Best with



L : length, W : width, H : height

Model	CAMPER-D 300C Alpha Charger
Normal voltage	12.8V
Capacity	300Ah 3,840Wh
Alpha Charger Input(XT-90 Male)	Driving Charging : 12.5V~15V Max. 30A or 60A (384W) or (768W) Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
Charger Input	Max. 14.2V 150A (recommended current Max. 40A)
DC Output	High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 2Port) (recommended current Max. 70A) QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 3Port DC jack (5.5Φ* 2.1Φ) 60W 1Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 38.4kg
Size(L X W X H)	757 X 186.4 X 241.4

built-in driving charger
30A or 60A

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhances convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability

Low Self Discharge Rate



DC JACK
DC Jack (5.5Φ*2.1Φ)

High Current Terminal
IN/OUT

DC OUT (12V)

QC 3.0 USB 1Port , PD 1Port
(5V3A, 9V2A, 12V1.5A / 18W)



JUMP STARTER
You can jump start your car battery when it is dead

CHARGER INPUT
Charge with 20A AC charger

CIGARCHARGER INPUT
Charge with 12V car cigar jack charger

DC IN/OUT

L : length, W : width, H : height

Model	CAMPER-D 100A
Norminal voltage	12.8V
Capacity	100Ah 1,280Wh
Charger Input	Max. 14.2V 50A (recommended current Max. 20A)
DC Output	High current terminal (10V~14.6V (Max.200A)) XT-90 male (Max. 90A 2Port) (recommended current Max. 70A) QC 3.0 (USB-A 1Port) ,PD (USB-C 5V3A, 9V2A, 12V1.5A) MAX. 1.5A(18W) 1Port Cigar 12V Max. 10A (120W) 2Port DC jack (5.5Φ*2.1Φ) 60W 2Port
Coulometer	Include : BM715(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 13kg
Size(L X W X H)	463 X 114 X 221

Portable LiFePO₄ All-in-One Power Station

With built-in DC-DC driving charger

LiFePO₄ power station is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers. Whenever electricity is needed, GSP power stations enhance convenience for charging with DC-DC charging that tops the batteries while driving at high speed. LiFePO₄ battery cells are applied to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0°C ~ 45°C
Recommended discharging TEMP	-20°C ~ 60°C

The driving charger is not included in the basic configuration of this product. It is available for separate purchase.



L : length, W : width, H : height

Model	CAMPER-D 280A
Norminal voltage / Capacity	12.8V / 280Ah 3,584Wh
Alpha Charger Input	Driving Charging : 12.5V~15V Max. 30A or 60A (384W) or (768W) Solar panel : 12.5V~30V, Max. 15A (192W) Cigar : 12.5V~15V, Max. 10A (128W)
(양방향) Bi-directional	Max. 14.2V Max.30A
Charger Input	Max. 14.6V 140A (recommended current Max. 40A)
Coulometer	Include : BM703(Current of 350A sampler) Ext : GX16-5PIN Male (internal specifications)
Weight	About 34.2kg
Size (L X W X H)	480(509.5) X 240(356.5) X 155(190.4)

LiFePO₄ Multi-purpose Slim Battery for Camping

DC 12V SLIM PACK

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability Low Self Discharge Rate



Model	LFP 12V 126A SLIM
Rated voltage	12.8V
Capacity	126Ah 1,612Wh
Charging voltage	14.2V
Recommended Charge current	63A
Recommended Discharge current	63A
Max Charging current	100A
Max Discharging current	200A
Case / Weight	ABS & PC / About 14.7kg
Size(L X W X H)	395 X 110 X 286

Model	LFP 12V 144A SLIM
Rated voltage	12.8V
Capacity	144Ah 1,843Wh
Charging voltage	14.2V
Recommended Charge current	72A
Recommended Discharge current	72A
Max Charging current	100A
Max Discharging current	200A
Case / Weight	ABS & PC / About 17.15kg
Size(L X W X H)	552 X 110 X 240

L : length, W : width, H : height

GSP INVERTER 2000W



Best with

Can be used when connected to an inverter 2000W



Model	LFP 12V 192A SLIM
Rated voltage	12.8V
Capacity	192Ah 2,457Wh
Charging voltage	14.2V
Recommended Charge current	96A
Recommended Discharge current	96A
Max Charging current	100A
Max Discharging current	200A
Case / Weight	ABS & PC / About 22kg
Size(L X W X H)	552 X 110 X 288

Model	LFP 12V 100A SUPER SLIM
Rated voltage	12.8V
Capacity	100Ah 1,280Wh
Charging voltage	14.2V
Recommended Charge current	20A
Recommended Discharge current	50A
Max Charging current	50A
Max Discharging current	150A
Case / Weight	STEEL / About 11kg
Size(L X W X H)	464 X 250 X 59.5

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2~3 times lighter than lead acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 12V 20A
Rated voltage	12.8V
Capacity	20Ah 256Wh
Charging voltage	14.6V
Recommended Charge current	10A
Recommended Discharge current	10A
Max Charging current	10A
Max Discharging current	20A
Case / Weight	ABS & PC / About 2.6kg
Size(L X W X H)	180 X 78 X 170

L : length, W : width, H : height



Model	LFP 12V 45A
Rated voltage	12.8V
Capacity	45Ah 576Wh
Charging voltage	14.6V
Recommended Charge current	22.5A
Recommended Discharge current	22.5A
Max Charging current	45A
Max Discharging current	45A
Case / Weight	ABS & PC / About 5.3kg
Size(L X W X H)	267 X 77 X 172

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed.

LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 12V 30A
Rated voltage	12.8V
Capacity	30Ah 384Wh
Charging voltage	14.6V
Recommended Charge current	15A
Recommended Discharge current	15A
Max Charging current	20A
Max Discharging current	30A
Case / Weight	ABS & PC / About 3.7kg
Size(L X W X H)	180 X 78 X 170

L : length, W : width, H : height



Model	LFP 12V 60A
Rated voltage	12.8V
Capacity	60Ah 768Wh
Charging voltage	14.6V
Recommended Charge current	30A
Recommended Discharge current	30A
Max Charging current	60A
Max Discharging current	60A
Case / Weight	ABS & PC / About 6.5kg
Size(L X W X H)	198 X 166 X 170

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 12V 100A MINI
Rated voltage	12.8V
Capacity	100Ah 1,280Wh
Charging voltage	14.2V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 12.5kg
Size(L X W X H)	260 X 168 X 209

L : length, W : width, H : height



Model	LFP 12V 100A
Rated voltage	12.8V
Capacity	100Ah 1,280Wh
Charging voltage	14.2V
Recommended Charge current	50A
Recommended DisCharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 12.5kg
Size(L X W X H)	330 X 173 X 216

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability

Low Self Discharge Rate



Model	LFP 12V 120A
Rated voltage	12.8V
Capacity	120Ah 1,536Wh
Charging voltage	14.2V
Recommended Charge current	60A
Recommended Discharge current	60A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 13.5kg
Size(L X W X H)	330 X 173 X 216

L : length, W : width, H : height



Model	LFP 12V 150A
Rated voltage	12.8V
Capacity	150Ah 1,920Wh
Charging voltage	14.2V
Recommended Charge current	75A
Recommended Discharge current	75A
Max Charging current	100A
Max Discharging current	150A
Case / Weight	ABS & PC / About 18kg
Size(L X W X H)	330 X 173 X 216

LiFePO₄ Multi-purpose Battery for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection

BMS

Cycle 2,000 ↑

Recommended charging TEMP 0°C ~ 45°C

Recommended discharging TEMP -20°C ~ 60°C



Model	LFP 12V 200A MINI
Rated voltage	12.8V
Capacity	200Ah 2,560Wh
Charging voltage	14.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	ABS & PC / About 22.5kg
Size(L X W X H)	345 X 190 X 245

L : length, W : width, H : height



Model	LFP 12V 200A
Rated voltage	12.8V
Capacity	200Ah 2,560Wh
Charging voltage	14.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	ABS & PC / About 22.5kg
Size(L X W X H)	480(490) X 167 X 240



LFP 12V 200A STEEL

12.8V

200Ah 2,560Wh

14.2V

100A

100A

200A

200A

Steel / About 24.85kg

345 X 245 X 190

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LifePO4 powerstation is 2-3 times lighter than lead acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LifePO4 cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability

Low Self
Discharge Rate



Model	LFP 12V 220A STEEL MAIN
Rated voltage	12.8V
Capacity	216Ah 2,764Wh
Charging voltage	14.2V
Recommended Charge current	110A
Recommended Discharge current	110A
Max Charging current	220A
Max Discharging current	220A
Case / Weight	Steel / About 30kg
Size(L X W X H)	468(506) X 310 X 160

L : length, W : width, H : height



No Voltmeter

Model	LFP 12V 220A STEEL SUB
Rated voltage	12.8V
Capacity	240Ah 3,072Wh
Charging voltage	14.2V
Recommended Charge current	110A
Recommended Discharge current	110A
Max Charging current	220A
Max Discharging current	220A
Case / Weight	Steel / About 30kg
Size(L X W X H)	459(506) X 310 X 160

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed.

LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0°C ~ 45°C
Recommended discharging TEMP	-20°C ~ 60°C



Model	LFP 12V 250A
Rated voltage	12.8V
Capacity	250Ah 3,200Wh
Charging voltage	14.2V
Recommended Charge current	125A
Recommended Discharge current	125A
Max Charging current	250A
Max Discharging current	250A
Case / Weight	ABS & PC / About 30kg
Size(L X W X H)	521(531) X 238 X 218

Model	LFP 12V 300A
Rated voltage	12.8V
Capacity	300Ah 3,840Wh
Charging voltage	14.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	ABS & PC / About 34kg
Size(L X W X H)	520(530) X 267 X 220

L : length, W : width, H : height



Model	LFP 12V 300A STEEL
Rated voltage	12.8V
Capacity	300Ah 3,840Wh
Charging voltage	14.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 36kg
Size(L X W X H)	375 X 271 X 190

Model	LFP 12V 400A STEEL A type
Rated voltage	12.8V
Capacity	408Ah 5,222Wh
Charging voltage	14.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 47kg
Size(L X W X H)	580(608) X 350(382) X 160

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability

Low Self
Discharge Rate



Model	LFP 12V 400A STEEL D type
Rated voltage	12.8V
Capacity	400Ah 5,120Wh
Charging voltage	14.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 47kg
Size(L X W X H)	442 X 238 X 252

L : length, W : width, H : height



Model	LFP 12V 600A STEEL B Type
Rated voltage	12.8V
Capacity	600Ah 7,680Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 60kg
Size(L X W X H)	734(770) X 185 X 325

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can work in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve durability against explosion and gases, allowing for use in camping, RV, emergency, hunting, fishing and outdoors.



Fast charging



Low Self
Discharge Rate

Safety protection

BMS

Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 12V 600A STEEL D Type PC
Rated voltage	12.8V
Capacity	600Ah 7,680Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 60kg
Size(L X W X H)	764(800) X 160 X 260

L : length, W : width, H : height



Model	LFP 12V 600A STEEL PC Type S
Rated voltage	12.8V
Capacity	600Ah 7,680Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 67kg
Size(L X W X H)	384 X 326(362) X 287

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability



Low Self Discharge Rate



Model	LFP 12V 900A STEEL CA Type
Rated voltage	12.8V
Capacity	900Ah 11,520Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 84.45kg
Size(L X W X H)	535 X 349(385) X 268

Model	LFP 12V 900A STEEL CB Type
Rated voltage	12.8V
Capacity	900Ah 11,520Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 84.45kg
Size(L X W X H)	580(616) X 305 X 265

L : length, W : width, H : height



Model	LFP 12V 900A STEEL CC Type
Rated voltage	12.8V
Capacity	900Ah 11,520Wh
Charging voltage	14.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	300A
Max Discharging current	300A
Case / Weight	Steel / About 84.45kg
Size(L X W X H)	750 X 240 X 315

LiFePO₄ Prismatic Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with high density that can be used in extreme weathers whenever electricity is needed.

LiFePO₄ prismatic battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



Fast charging



Low Self
Discharge Rate

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Voltmeter included



Model	LFP 12V P300A MINI
Rated voltage	12.8V
Capacity	300Ah 3,840Wh
Charging voltage	14.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Max Peak Discharging current	300A
Case / Weight	ABS&PC / About 30kg
Size(L X W X H)	345(370) X 190 X 245(260)

Model	LFP 12V P230A STEEL
Rated voltage	12.8V
Capacity	230Ah 2,944Wh
Charging voltage	14.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Max Peak Discharging current	230A
Case / Weight	Steel / About 35kg
Size(L X W X H)	356 X 222 X 156

L : length, W : width, H : height



Voltmeter included



Model	LFP 12V P300A STEEL SLIM
Rated voltage	12.8V
Capacity	300Ah 3,780Wh
Charging voltage	14.2V
Recommended Charge current	60A
Recommended Discharge current	60A
Max Charging current	150A
Max Discharging current	200A
Max Peak Discharging current	300A
Case / Weight	Steel / About 28kg
Size(L X W X H)	404(440) X 250 X 175(180)

Model	LFP 12V P300A STEEL
Rated voltage	12.8V
Capacity	300Ah 3,780Wh
Charging voltage	14.2V
Recommended Charge current	60A
Recommended Discharge current	60A
Max Charging current	150A
Max Discharging current	200A
Max Peak Discharging current	300A
Case / Weight	Steel / About 28.05kg
Size(L X W X H)	360(396) X 190 X 263

LiFePO₄ Prismatic Battery

for Camping and etc. DC 12V

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with high density that can be used in extreme weathers whenever electricity is needed. LiFePO₄ prismatic battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



LFP 12V P600A STEEL A1 TYPE

12.8V
600Ah 7,680Wh
14.2V
120A
120A
300A
300A
300A
Steel / About 52.40kg
393(429) X 305 X 265



LFP 12V P600A STEEL B TYPE

12.8V
600Ah 7,680Wh
14.2V
120A
120A
300A
300A
600A
Steel / About 52.40kg
644(680) X 190 X 263



LFP 12V P600A STEEL C TYPE

12.8V
600Ah 7,680Wh
14.2V
120A
120A
300A
300A
600A
Steel / About 52.40kg
764(800) X 160 X 260

L : length, W : width, H : height



LFP 12V P900A STEEL

Model	LFP 12V P900A STEEL
Rated voltage	12.8V
Capacity	900Ah 11,520Wh
Charging voltage	14.2V
Recommended Charge current	120A
Recommended Discharge current	120A
Max Charging current	300A
Max Discharging current	300A
Max Peak Discharging current	600A
Case / Weight	Steel / About 76.95kg
Size(L X W X H)	500 X 393(429) X 265



LFP 12V P640A STEEL

12.8V
640Ah 8,192Wh
14.2V
200A
200A
300A
300A
300A
Steel / About 52.40kg
355(390) X 351 X 190

LiFePO₄ Electric Wheelchair Battery

Safe, long lasting and convenient drop in LiFePO₄ electric wheel chair provides more energy per dimension and weight compared to Lead-acid, AGM and gel batteries. Making it the economical choice for long-term use with lifespans 10times longer and low self-discharge for longer storage.



Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 12V 45A
Rated voltage	12.8V
Capacity	45Ah 576Wh
Charging voltage	14.2V
Recommended Charge current	23A
Recommended Discharge current	23A
Max Charging current	45A
Max Discharging current	45A
Case / Weight	ABS & PC / About 5kg
Size(L X W X H)	195 X 133 X 171

L : length, W : width, H : height



Model	LFP 12V 60A
Rated voltage	12.8V
Capacity	60Ah 768Wh
Charging voltage	14.2V
Recommended Charge current	30A
Recommended Discharge current	30A
Max Charging current	60A
Max Discharging current	60A
Case / Weight	ABS & PC / About 6.5kg
Size(L X W X H)	198 X 160 X 170

LiFePO₄ Electric Wheelchair Battery

Safe, long lasting and convenient drop in LiFePO₄ electric wheel chair provides more energy per dimension and weight compared to Lead-acid, AGM and gel batteries. Making it the economical choice for long-term use with lifespans 10times longer and low self-discharge for longer storage.



Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0°C ~ 45°C
Recommended discharging TEMP	-20°C ~ 60°C



Strong Stability Low Self Discharge Rate



Model	LFP 12V 75A
Rated voltage	12.8V
Capacity	75Ah 960Wh
Charging voltage	14.2V
Recommended Charge current	37A
Recommended Discharge current	37A
Max Charging current	75A
Max Discharging current	75A
Case / Weight	ABS & PC / About 8.25kg
Size(L X W X H)	229 X 138 X 208

Model	LFP 12V 75A EVF
Rated voltage	12.8V
Capacity	75Ah 960Wh
Charging voltage	14.2V
Recommended Charge current	37A
Recommended Discharge current	37A
Max Charging current	75A
Max Discharging current	75A
Case / Weight	ABS & PC / About 8.25kg
Size(L X W X H)	223 X 135 X 178

L : length, W : width, H : height



Model	LFP 12V 100A
Rated voltage	12.8V
Capacity	100Ah 1,280Wh
Charging voltage	14.2V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 12.5kg
Size(L X W X H)	260 X 168 X 209

LiFePO₄ Baby Car Battery

Safer in risks of fire, explosion and gases compared to lead-acid, Lithium ion, AGM and gel batteries. High density to dimension and weight enables stable voltage supply with fast charging and low self-discharge rate. Allowing numerous uses from motor boats, industrial equipment, electric reel, passenger toys, tool working and more.



High Density



BMS control possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃

These batteries are not for the use of motorcycles start-up and dashboard camera

It is recommended that you use batteries developed exclusively for motorcycle start-up and dashcam.



Model	LFP 6V 6A
Rated voltage	12.8V
Capacity	6Ah 38.4Wh
Charging voltage	14.2V
Recommended Charge current	3A
Recommended Discharge current	3A
Max Charging current	6A
Max Discharging current	18A
Case / Weight	ABS & PC / About 0.36kg
Size(L X W X H)	69 X 46 X 100

Model	LFP 12V 6A
Rated voltage	12.8V
Capacity	6Ah 76.8Wh
Charging voltage	14.2V
Recommended Charge current	3A
Recommended Discharge current	3A
Max Charging current	6A
Max Discharging current	18A
Case / Weight	ABS & PC / About 0.8kg
Size(L X W X H)	152 X 65 X 100

L : length, W : width, H : height

These batteries are not for the use of motorcycles start-up and dashboard camera

It is recommended that you use batteries developed exclusively for motorcycle start-up and dashcam.



Model	LFP 12V 12A
Rated voltage	12.8V
Capacity	12Ah 153.6Wh
Charging voltage	14.2V
Recommended Charge current	6A
Recommended Discharge current	6A
Max Charging current	6A
Max Discharging current	24A
Case / Weight	ABS & PC / About 1.3kg
Size(L X W X H)	152 X 65 X 100

Model	LFP 12V 18A
Rated voltage	12.8V
Capacity	18Ah 230Wh
Charging voltage	14.2V
Recommended Charge current	9A
Recommended Discharge current	9A
Max Charging current	18A
Max Discharging current	36A
Case / Weight	ABS & PC / About 1.9kg
Size(L X W X H)	151 X 98.5 X 99

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 24V

LifePO4 powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LifePO4 cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Strong Durability Low Self-Discharge Rate



Model	LFP 24V 6A
Rated voltage	25.6V
Capacity	6Ah 153.6Wh
Charging voltage	29.2V
Recommended Charge current	3A
Recommended Discharge current	3A
Max Charging current	6A
Max Discharging current	6A
Case / Weight	ABS & PC / About 1.3kg
Size(L X W X H)	150 X 94 X 65

L : length, W : width, H : height



Model	LFP 24V 15A
Rated voltage	25.6V
Capacity	15Ah 384Wh
Charging voltage	29.2V
Recommended Charge current	7.5A
Recommended Discharge current	7.5A
Max Charging current	15A
Max Discharging current	15A
Case / Weight	ABS & PC / About 5.3kg
Size(L X W X H)	180 X 78 X 170

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 24V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries. It has strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are used to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



Low Self
Discharge Rate

Fast charging

Safety protection

BMS

	Cycle	2,000 +
Recommended charging TEMP		0℃ ~ 45℃
Recommended discharging TEMP		-20℃ ~ 60℃



Model	LFP 24V 24A
Rated voltage	25.6V
Capacity	24Ah 614Wh
Charging voltage	29.2V
Recommended Charge current	12A
Recommended Discharge current	12A
Max Charging current	24A
Max Discharging current	24A
Case / Weight	ABS & PC / About 5.3kg
Size(L X W X H)	256 X 77 X 170

L : length, W : width, H : height



Model	LFP 24V 30A
Rated voltage	25.6V
Capacity	24Ah 768Wh
Charging voltage	29.2V
Recommended Charge current	15A
Recommended Discharge current	15A
Max Charging current	30A
Max Discharging current	30A
Case / Weight	ABS & PC / About 7.5kg
Size(L X W X H)	198 X 160 X 170

LiFePO₄ Multi-purpose Battery

for Camping and etc DC 24V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and abuse, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection

BMS

Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



고밀도

BMS 제어기능



H

W

L



Model	LFP 24V 60A
Rated voltage	25.6V
Capacity	60Ah 1,536Wh
Charging voltage	29.2V
Recommended Charge current	30A
Recommended Discharge current	30A
Max Charging current	60A
Max Discharging current	60A
Case / Weight	ABS & PC / About 12.5kg
Size(L X W X H)	330 X 173 X 216

L : length, W : width, H : height

Model	LFP 24V 100A MINI
Rated voltage	25.6V
Capacity	90Ah 2,560Wh
Charging voltage	29.2V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 25kg
Size(L X W X H)	340(370) X 190 X 248(260)



Model	LFP 24V 100A
Rated voltage	25.6V
Capacity	100Ah 2,560Wh
Charging voltage	29.2V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 25kg
Size(L X W X H)	480(490) X 167 X 240

Model	LFP 24V 120A STEEL
Rated voltage	25.6V
Capacity	120Ah 3,072Wh
Charging voltage	29.2V
Recommended Charge current	60A
Recommended Discharge current	60A
Max Charging current	60A
Max Discharging current	100A
Case / Weight	Steel / About 38kg
Size(L X W X H)	330 X 345 X 162(200)

LiFePO₄ Multi-purpose Battery for Camping and etc. DC 24V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



BMS control
possible

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 24V 150A
Rated voltage	25.6V
Capacity	150Ah 3,840Wh
Charging voltage	29.2V
Recommended Charge current	75A
Recommended Discharge current	75A
Max Charging current	150A
Max Discharging current	150A
Case / Weight	ABS & PC / About 34kg
Size(L X W X H)	521 X 238 X 218

L : length, W : width, H : height



Model	LFP 24V 150A STEEL
Rated voltage	25.6V
Capacity	150Ah 3,840Wh
Charging voltage	29.2V
Recommended Charge current	75A
Recommended Discharge current	75A
Max Charging current	150A
Max Discharging current	150A
Case / Weight	Steel / About 35.5kg
Size(L X W X H)	360 X 250 X 252(290)



Model	LFP 24V 230A STEEL A TYPE
Rated voltage	25.6V
Capacity	230Ah 5,888Wh
Charging voltage	29.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 53kg
Size(L X W X H)	575 X 205 X 250

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 24V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 1
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



BMS control possible



High Density



Model	LFP 24V 240A STEEL B TYPE
Rated voltage	25.6V
Capacity	240Ah 6,144Wh
Charging voltage	29.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 52.3kg
Size(L X W X H)	442 X 295(362) X 235(250)

Model	LFP 24V 300A
Rated voltage	25.6V
Capacity	300Ah 7,680Wh
Charging voltage	29.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	ABS & PC / About 70.2kg
Size(L X W X H)	520(530) X 267 X 220

L : length, W : width, H : height



Model	LFP 24V 300A STEEL
Rated voltage	25.6V
Capacity	300Ah 7,680Wh
Charging voltage	29.2V
Recommended Charge current	150A
Recommended Discharge current	150A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 72kg
Size(L X W X H)	405(440) X 326(364) X 287

Model	LFP 24V 400A STEEL
Rated voltage	25.6V
Capacity	400Ah 10,240Wh
Charging voltage	29.2V
Recommended Charge current	200A
Recommended Discharge current	200A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 83kg
Size(L X W X H)	875(898) X 380(416) X 172

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 36V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



Low Self
Discharge Rate



BMS control
possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 36V 60A
Rated voltage	38.4V
Capacity	60Ah 2,304Wh
Charging voltage	43.8V
Recommended Charge current	30A
Recommended Discharge current	30A
Max Charging current	60A
Max Discharging current	60A
Case / Weight	ABS & PC / About 23kg
Size(L X W X H)	343(370) X 190 X 248(260)

Model	LFP 36V 100A
Rated voltage	38.4V
Capacity	100h 3,840Wh
Charging voltage	43.8V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 30.3kg
Size(L X W X H)	521(530) X 267 X 220

L : length, W : width, H : height



Model	LFP 36V 210A STEEL
Rated voltage	38.4V
Capacity	210h 8,064Wh
Charging voltage	43.8V
Recommended Charge current	110A
Recommended Discharge current	110A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 62kg
Size(L X W X H)	480 X 350 X 245(283)

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 48V

LiFePO₄ powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 48V 30A
Rated voltage	51.2V
Capacity	30Ah 1,536Wh
Charging voltage	58.4V
Recommended Charge current	15A
Recommended Discharge current	15A
Max Charging current	30A
Max Discharging current	30A
Case / Weight	ABS & PC / About 13.2kg
Size(L X W X H)	330 X 173 X 216

L : length, W : width, H : height



Model	LFP 48V 100A STEEL
Rated voltage	51.2V
Capacity	100Ah 5,120Wh
Charging voltage	58.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 48kg
Size(L X W X H)	540 X 170 X 360(398)



Model	LFP 48V 100A
Rated voltage	51.2V
Capacity	100Ah 5,120Wh
Charging voltage	58.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	ABS & PC / About 46kg
Size(L X W X H)	520(530) X 267 X 220



Model	LFP 48V 120A STEEL
Rated voltage	51.2V
Capacity	120Ah 6,144Wh
Charging voltage	58.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 56kg
Size(L X W X H)	540 X 360(396) X 192

LiFePO₄ Multi-purpose Battery

for Golfcart and etc. DC 36V & 48V

LiFePO₄ power station is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency lighting, fishing and outdoors.



Low Self
Discharge Rate



BMS control
possible

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 36V P105A STEEL
Rated voltage	38.4V
Capacity	105Ah 4,032Wh
Charging voltage	43.8V
Recommended Charge current	21A
Recommended Discharge current	52A
Max Charging current	52A
Max Discharging current	300A
Case / Weight	Steel / About 35kg
Size(L X W X H)	464 X 217 X 250



Model	LFP 48V P105A STEEL
Rated voltage	51.2V
Capacity	105Ah 5,376Wh
Charging voltage	58.4V
Recommended Charge current	21A
Recommended Discharge current	52A
Max Charging current	52A
Max Discharging current	300A
Case / Weight	Steel / About 44kg
Size(L X W X H)	574 X 217 X 250

L : length, W : width, H : height



Model	LFP 48V P125A STEEL
Rated voltage	51.2V
Capacity	125Ah 6,400Wh
Charging voltage	58.4V
Recommended Charge current	25A
Recommended Discharge current	62A
Max Charging current	62A
Max Discharging current	300A
Case / Weight	Steel / About 52kg
Size(L X W X H)	679 X 242 X 221



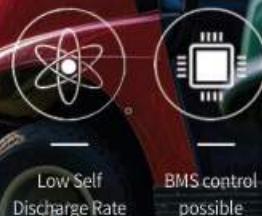
Model	LFP 48V P160A STEEL
Rated voltage	51.2V
Capacity	160Ah 8,192Wh
Charging voltage	58.4V
Recommended Charge current	32A
Recommended Discharge current	80A
Max Charging current	80A
Max Discharging current	300A
Case / Weight	Steel / About 62kg
Size(L X W X H)	684 X 242 X 250

LiFePO₄ Multi-purpose Battery

for Golfcart and etc. DC 72V

LifePO4 powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed. LiFePO4 cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 72V 105A STEEL
Rated voltage	76.8V
Capacity	105Ah 8,064Wh
Charging voltage	82.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 73.5kg
Size(L X W X H)	720(750) X 250 X 255(270)

L : length, W : width, H : height



Model	LFP 72V P125A STEEL
Rated voltage	76.8V
Capacity	125Ah 9,600Wh
Charging voltage	82.4V
Recommended Charge current	25A
Recommended Discharge current	62A
Max Charging current	62A
Max Discharging current	300A
Case / Weight	Steel / About 73kg
Size(L X W X H)	704 X 324 X 224

LiFePO₄ Multi-purpose Battery

for Camping and etc. DC 48V

LiFePO₄ powerstation is 2~3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed.

LiFePO₄ cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing it to be used for camping, RV, emergency, hunting, fishing and outdoors.



Low Self
Discharge Rate



BMS control
possible

Safety protection	BMS
Cycle	2,000 ↑
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 48V 234A STEEL
Rated voltage	51.2V
Capacity	234Ah 11,980Wh
Charging voltage	58.4V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 110kg
Size(L X W X H)	870 X 220 X 362(400)

L : length, W : width, H : height



Model	LFP 48V 252A STEEL
Rated voltage	51.2V
Capacity	252Ah 12,902Wh
Charging voltage	58.4V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 114kg
Size(L X W X H)	445(481) X 343 X 501(506)

Home Energy System

Safely store surplus energy from homes and various industrial sites that is not immediately needed. This stored energy can be effectively utilized during peak demand periods and in emergency situations. Relieve your power concerns with diverse home energy systems.

Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 24V 200A STEEL
Rated voltage	25.6V
Capacity	200Ah 5,120Wh
Charging voltage	29.2V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 51.20kg
Size(L X W X H)	506.8 X 200 X 435

Model	LFP 48V 100A STEEL
Rated voltage	51.2V
Capacity	100Ah 5,120Wh
Charging voltage	58.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 52kg
Size(L X W X H)	436.8 X 440(486.8) X 200

L : length, W : width, H : height



Model	LFP 48V 200A STEEL
Rated voltage	51.2V
Capacity	200Ah 10,240Wh
Charging voltage	58.4V
Recommended Charge current	100A
Recommended Discharge current	100A
Max Charging current	200A
Max Discharging current	200A
Case / Weight	Steel / About 106kg
Size(L X W X H)	710 X 610(645) X 175

Home Energy System

In modern life, energy efficiency and stability are increasingly critical. The GSP Home Energy System is an optimal solution designed to meet these demands. This system efficiently manages and utilizes generated electricity by storing the necessary power in GSP Battery's LFP 48V 105Ah batteries.



Low Self
Discharge Rate

BMS Control
Possible



Safety protection	BMS
Cycle	2,000 +
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃

Model	All-in-One Stackable home Energy System
Battery Modul	1Layer / 2Layer / 3Layer / 4Layer
Energy(1Layer)	5,376Wh
In Port	PV/AC In
Out Port	AC Out
Safety Features	Circuit Breaker
Communication	Wi-Fi / RS232 / RS485
Rated Battery Voltage	51.2V
Max. AC Charging Current	100A (@230V)
Max. Solar Input	6,500W
Solar MPPT Voltage Range	60~500V
Max. Total Charging Current	120A(AC Charger + Solar Charger)
Rated Output Power	6200W
Output Voltage Range	230V ± 5%
Rated DC Input Voltage	48V
High DC Recovery Voltage	62V
High DC Cut-off Voltage	63V
Battery Capacity	105Ah
Battery Recommended Charge Current	50A
Battery Recommended Discharge Current	50A
Battery Max. Charging Current	100A
Battery Max. Discharging Current	100A
Dimension	Inverter: 600X260X360mm / Battery: 600X260X280mm
Weight	Inverter: About 9kg / Battery: 52kg



LiFePO₄ Multi-purpose Battery

Safely store surplus energy from homes and various industrial sites that is not immediately needed. This stored energy can be effectively utilized during peak demand periods and in emergency situations. Relieve your power concerns with diverse home energy systems.

Safety protection

	Cycle	2500
Recommended charging TEMP		15~35℃
Recommended discharging TEMP		-20℃ ~ 60℃



BMS control
possible



High Density



Model	LFP 48V 100A STEEL
Rated voltage	51.2V
Capacity	100Ah 5,120Wh
Charging voltage	56.8V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 52kg
Size(L X W X H)	450(472) X 443(493) X 145(190)mm



Stack-up configuration



Model	LFP 51.2V 100Ah Stack-up type
Rated voltage	51.2V
Capacity	100Ah 5,120Wh
Charging voltage	58.4V
Recommended Charge current	50A
Recommended Discharge current	50A
Max Charging current	100A
Max Discharging current	100A
Case / Weight	Steel / About 50kg
Size(L X W X H)	329 X 485 X 134



LiFePO₄ Multi-purpose Battery

LifePO4 powerstation is 2-3 times lighter than lead-acid, AGM and gel batteries with strong durability that can be used in extreme weathers whenever electricity is needed.

LiFePO4 cylindrical battery cells are utilized to improve stability against fire, explosion and gases, allowing safe use for camping, RV, emergency, hunting, fishing and outdoors.



Low Self
Discharge Rate



BMS Control
possible

Safety protection	BMS
Cycle	2,000 ±
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



Model	LFP 51.2V 314Ah
Rated voltage	51.2V
Capacity	314Ah 16,076WhWh
Charging voltage	58.4V
Recommended Charge current	62A
Recommended Discharge current	157A
Max Charging current	157A
Max Discharging current	300A
Case / Weight	Steel / About 52kg
Size(L X W X H)	420 x 280 x 854mm

LiFePO₄ Multi-purpose Battery

Safely store surplus energy from homes and various industrial sites that is not immediately needed. This stored energy can be effectively utilized during peak demand periods and in emergency situations. Relieve your power concerns with diverse home energy systems.

Safety protection	BMS
Cycle	2,000 1
Recommended charging TEMP	0℃ ~ 45℃
Recommended discharging TEMP	-20℃ ~ 60℃



BMS control possible



High Density



L : length, W : width, H : height

Model	LFP 288V 500A
Nominal Voltage / Capacity	288V/500Ah
Charging Voltage	Max 324V / (Cell 4.05V)
Charging Method	Constant Current / Constant Voltage
Discharge Cut off Voltage	256V / (Cell 3.2V)
Standard Charging Current / Max Charging Current	120A / 300A
Standard Discharge Current	0.5C(250A)
Max Discharge Current	350A
Peak Discharge Current	1,000A Within 1S
Cycle Life	1,000cycle,80%
Operating Temperature	For charging : 0 to +45℃ / For discharge : -20 to +60℃
Over charge Detection Voltage / Over Discharge Detection Voltage	339.2V / (Cell 4.24V) / 200V / (Cell 2.5V)
Over Charge Current Detection	360A±10A
Over Charge Current Detection Delay Time	3S
Over Discharge Current Detection	400A±20A
Over Discharge Current Detection Delay Time	10S
Charging cell Over Temperature Detection	45℃
Charging cell Under Temperature Detection	0℃
Discharging cell Over Temperature Detection	60℃
Discharging cell Under Temperature Detection	-20℃
Communication Interface	CAN2.0B
Cell Balance	Active Balancing (±2A)
Heater Control Temperature	Operating Temperature 0℃ / Stop Temperature 3℃
Isolation Resistance	>100KΩ
Weight(kg) / Dimension(mm)	About 1442 kg / 1500 x 1158(949) x 1100 mm

SolarStreetlightLithium-ionBattery

Streetlight Lithium-ion battery can be installed inside the streetlight pole and provide high density energy to weight and dimension. With no memory effect, capacity of the battery does not decrease over time even with continuous discharge and charge.



CE certified

Ignition &
Explosion free

Safety protection	BMS
Case	Aluminum Alloy Case+Iron End Plate
Quality Warranty	3 years
Working Voltage Range	-20℃ ~ 55℃

Model	Type	Voltage (V)	Capacity (Ah)	Dimension L X W X H (mm)	Weight (Kg)	BMS Continuous Charging Current (A) / Continuous DisCharing Current(A)
GSP-SL12V23	12V 23Ah	11.1	23	150 X 128 X 75	2	20 / 20
GSP-SL12V31	12V 31Ah	11.1	31	178 X 128 X 75	2.5	20 / 20
GSP-SL12V44	12V 44Ah	11.1	44	230 X 128 X 75	3.2	20 / 20
GSP-SL12V52	12V 52Ah	11.1	52	250 X 128 X 75	4.1	20 / 20
GSP-SL12V57	12V 57Ah	11.1	57	250 X 128 X 75	4.5	20 / 20
GSP-SL12V72	12V 72Ah	11.1	72	300 X 128 X 75	5.4	20 / 20
GSP-SL12V88	12V 88Ah	11.1	88	355 X 128 X 75	6.5	20 / 20
GSP-SL12V104	12V 104Ah	11.1	104	410 X 128 X 75	7.6	20 / 20

L : length, W : width, H : height



Solar Streetlight Lithium-ion Battery

Solar Streetlight Lithium-ion battery can be installed inside the streetlight pole and provide high density energy to weight and dimension. With no memory effect, capacity of the battery does not decrease over time even with continuous discharge and charge.

Safety protection BMS

Case	Aluminum Alloy Case+Iron End Plate
Quality Warranty	3 years
Working Voltage Range	-20°C ~ 55°C



CE certified



Ignition & Explosion free

Model	Type	Voltage (V)	Capacity (Ah)	Dimension L X W X H (mm)	Weight (Kg)	BMS MAX Continuous Charging Current(A) / Continuous Discharging Current(A)
GSP-LFP12V20Ah	12V 20Ah	12.8	20	200 × 145 × 81	4.5	10 / 10
GSP-LFP12V30Ah	12V 30Ah	12.8	30	200 × 145 × 81	5.3	10 / 10
GSP-LFP12V50Ah	12V 50Ah	12.8	50	330 X 145 X 81	7.2	10 / 10
GSP-LFP12V60Ah	12V 60Ah	12.8	50	400 X 145 X 81	8.5	10 / 10
GSP-LFP12V80Ah	12V 80Ah	12.8	80	520 X 145 X 81	10.5	10 / 10
GSP-LFP12V100Ah	12V 100Ah	12.8	100	620 X 145 X 81	13	20 / 20
GSP-LFP12V110Ah	12V 110Ah	12.8	110	690 X 145 X 81	14.5	20 / 20
GSP-LFP12V120Ah	12V 120Ah	12.8	120	710 X 145 X 81	15.5	20 / 20
GSP-LFP12V135Ah	12V 135Ah	12.8	135	800 X 145 X 81	17.5	20 / 20
GSP-LFP12V140Ah	12V 140Ah	12.8	140	840 X 145 X 81	18.3	20 / 20
GSP-LFP12V160Ah	12V 160Ah	12.8	160	940 X 145 X 81	20	20 / 20

L : length, W : width, H : height



LiFePO₄ Battery Charger

The lithium iron phosphate battery AC charger is charged with constant current until it reaches 90 to 95% of the state of charge (SOC), so the charging speed and efficiency are much better than that of lead acid battery charger.

To use a lithium iron phosphate battery stably, it is recommended to use a charger exclusively for lithium iron phosphate.



NO FAN

Model	LFP Charger 14.2V 2A 4S
Input power	AC 100-240V, 50/60Hz
Max Charging Voltage	14.2V , 2A
Efficiency	80% ↑
Case	ABS & PC
Weight	About 130g
Size(L X W X H)	45 X 72 X 48
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug



NO FAN

Model	LFP Charger 14.2V 4A 4S
Input power	AC 100-240V, 50/60Hz
Max Charging Voltage	14.2V , 4A
Efficiency	83% ↑
Case	ABS & PC
Weight	About 321g
Size(L X W X H)	115 X 50 X 34
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug



NO FAN

Model	LFP Charger 14.2V 10A 4S
Input power	AC 100-240V, 50/60Hz
Max Charging Voltage	14.2V , 10A
Efficiency	83.8% ↑
Case	ABS & PC
Weight	About 850g
Size(L X W X H)	176 X 80 X 47
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90



Model	LFP Charger 14.2V 20A 4S
Input power	AC 220V, 60Hz
Max Charging Voltage	14.2V , 20A
Efficiency	85% ↑
Case	Aluminum
Weight	About 2.0kg
Size(L X W X H)	208 X 120 X 70
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90



Model	LFP Charger 14.2V 40A 4S
Input power	AC 220V, 60Hz
Max Charging Voltage	14.2V , 40A
Efficiency	87% ↑
Case	Aluminum
Weight	About 3kg
Size(L X W X H)	220 X 135 X 70
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90



Model	LFP Charger 14.2V 50A 4S
Input power	AC 100 - 240V, 60Hz
Max Charging Voltage	14.2V 50A
Efficiency	85-95% ↑
Case	Aluminum
Weight	About 3.25Kg
Size(L X W X H)	285 X 142 X 90.5
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug



Model	LFP Charger 14.2V 70A 4S
Input power	AC 100 - 240V, 60Hz
Max Charging Voltage	14.2V 70A
Efficiency	85-95% ↑
Case	Aluminum
Weight	About 4Kg
Size(L X W X H)	314 X 138 X 86
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug

LiFePo₄ Charger

To use a lithium iron phosphate battery stably, it is recommended to use a charger dedicated to lithium iron phosphate.



NO FAN



Model	LFP Charger 28V 5A 8S
Input power	AC 100-240V, 50/60Hz
Max Charging Voltage	28.0V , 5A
Efficiency	85-95%
Case	ABS & PC
Weight	About 850g
Size(L X W X H)	176 X 80 X 47
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90 Best with

Model	LFP Charger 28V 25A 8S
Input power	AC 220V, 60Hz
Max Charging Voltage	28.0V , 25A
Efficiency	87% †
Case	Aluminum
Weight	About 3kg
Size(L X W X H)	220 X 135 X 70
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90

Model	LFP Charger 28.4V 70A 8S
Input power	AC 200 - 240V, 60Hz
Max Charging Voltage	28.4V , 70A
Efficiency	87% †
Case	Aluminum
Weight	About 6.25kg
Size(L X W X H)	314 X 138 X 86
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug



Model	LFP Charger 42V 20A 12S
Input power	AC 220V, 60Hz
Max Charging Voltage	42.0V , 20A
Efficiency	87% †
Case	Aluminum
Weight	About 3kg
Size(L X W X H)	220X 135 X 70
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90

Model	LFP Charger 56V 15A 16S
Input power	AC 220V, 60Hz
Max Charging Voltage	42.0V , 50A
Efficiency	87% †
Case	Aluminum
Weight	About 3kg
Size(L X W X H)	220X 135 X 70
Protective device	Short circuit & overload protection
Composition	Power brick, Power plug, XT 90

Voltmeter and Watt-hour meter

BD7S (Voltmeter)

Battery Capacity 5V~70V

The BD7S battery voltage indicator is a kind of voltage type capacity tester that tests battery voltage and capacity. It shows the remaining battery capacity as a percentage so that the user can easily check the remaining battery capacity. BD7S has a memory function, which is suitable for mobile and portable equipment, e-bikes, and vacuum cleaners and so on.



Parameter	Min	Type	Max	Unit
Working Voltage	9.0	12.0	120.0	VDC
Working Power	3.0	4.0	5.0	mA
Standby power	8	10	50	uA
Electricity accuracy	/	±0.5	±1.0	%
Voltage accuracy	/	±0.3	±0.6	%
Environment	-10	25	+50	℃
Size(L X W X H)	61.30 X 33.30			mm

BM715 (Coulombmeter)(100A/350A)

Battery Capacity 8V~80V

BM715 is a high-precision current battery capacity tester that shows the voltage, current, and capacity of the battery to help users easily check the state of the battery.



Parameter	Min	Type	Max	Unit
Working Voltage	8.0	50.0	80.0	V
Working dissipation		10.0	12.0	mA
Standby dissipation		0.5	0.8	mA
Sleep dissipation		50	60	uA
Voltage accuracy		±1.0		%
Current accuracy		±1.0		%
Capacity accuracy		±1.0		%
Backlight on current(50A)	30		60	mA
Backlight on current(>50A)	80		120	mA
Preset capacity value	0.1		9999.9	Ah
Current of 50A sampler	0.0	50.0	75.0	A
Current of 100A sampler	0.0	100.0	150.0	A
Current of 350A sampler	0.0	350.0	500.0	A
Temperature range	0	20	35	℃
Weight	20			g
Size(L X W X H)	66 X 40 X 13			mm

Watt-hour Meter & Active Balance

BM703 (Coulombmeter)(100/350/500) Battery Capacity 10V~120V

GSP BM703 is a high-precision current battery capacity tester that tests the voltage, current, and capacity of a battery to help a user easily check the battery state. It has memory functions and low-voltage capacity alarm functions and can be used in mobile devices, portable equipment, electric bicycles, electric scooters, electric cleaning car, UPS, etc.

Parameter	Min	Type	Max
Working Voltage	10.0 V	50.0 V	120.0 V
Working dissipation		10.0 mA	15.0 mA
Standby dissipation		1.0 mA	2.0 mA
Voltage accuracy		±1.0 %	
Current accuracy		±1.0 %	
Capacity accuracy		±1.0 %	
Backlight on current(50A)	30 mA		60 mA
Backlight on current(>50A)	80 mA		120 mA
Preset capacity value	0.1 Ah		9999.9 Ah
Current of 50A sampler	0.0 A	50.0 A	75.0 A
Current of 100A sampler	0.0 A	100.0 A	150.0 A
Current of 350A sampler	0.0 A	350.0 A	500.0 A
Current of 500A sampler	0.0 A	500.0 A	750.0 A
Temperature range	0 ℃	20 ℃	35 ℃
Weight		76 g	
Size(L X W X H)		94 mm X 61 mm X 18 mm	



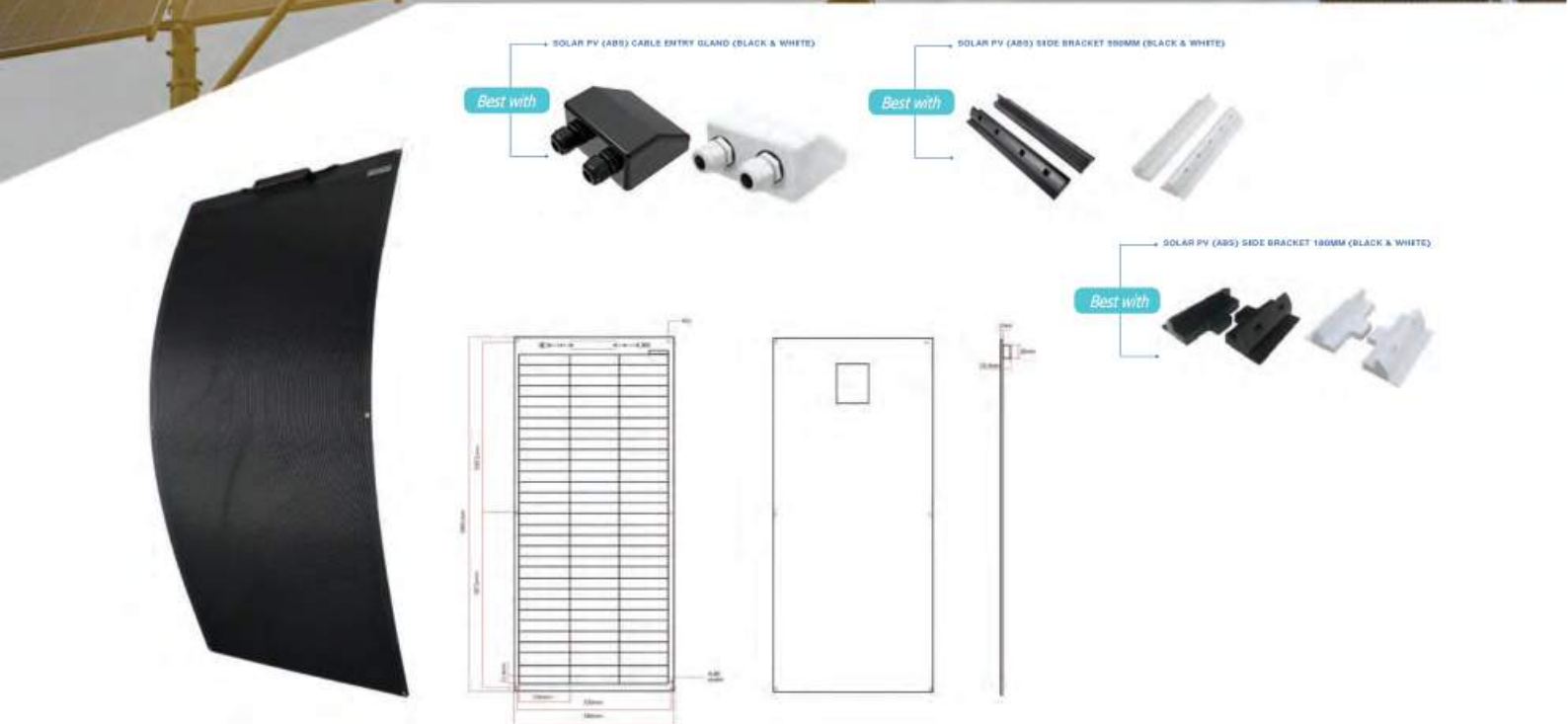
GSP AEQ4S Active Balance 3S~4S

"Active Balance 3S~4S" is an innovative battery balancing device that supports 3-cell (3S) up to 4-cell (4S) Lithium Polymer (LiPo) batteries. It boasts high efficiency and stability, ensuring extended battery life and safe operation.

Model	GSP-AEQ4S
Applicable string	3S~4S
Applicable battery type	Lithium-ion, Polymer/LiFePO4
Single voltage working range	>2.7V
Voltage equalization accuracy	5 mV
Under-voltage protection working voltage	<2.7V
Balance Mode	The entire battery pack balances simultaneously to transfer energy.
Balanced static consumption current	Balancing Current: Proportional to voltage difference (1A @ 0.08V). Max 5.5A.
Connection cable	18AWG / 5P / 40cm



SOLAR PANEL

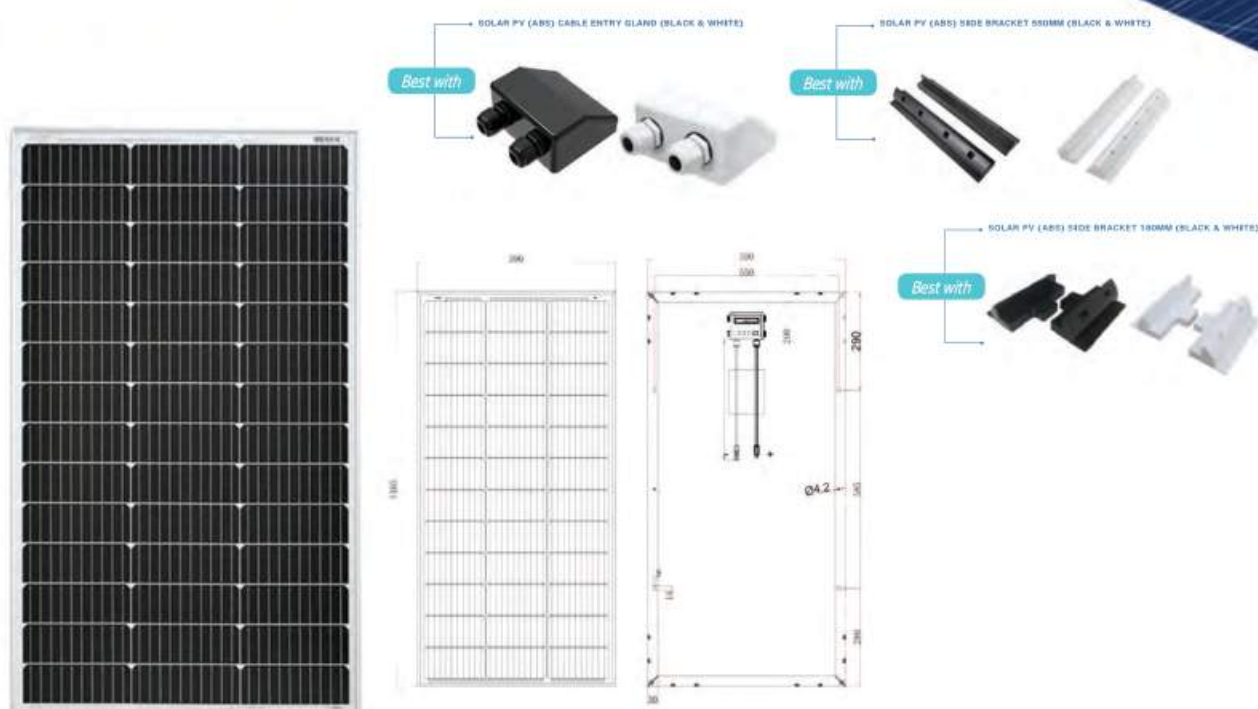


GSP FLEXIBLE PANEL 120W

Model	GSP - FL - D2 - 120W
Maximum power(Pmax)	120W
Open-circuit voltage(Voc)	24.0V
Voltage at Pmax(Vmp)	20.3V
Short-circuit current(Isc)	6.27A
Current at Pmax(Impp)	5.92A
Cells Efficiency(%)	22.7%
The maximum system voltage	600V DC(IEC)
Power temperature coefficient	-0.38%/°C
Voltage temperature coefficient	-0.36%/°C
Current temperature coefficient	-0.07%/°C
Output power tolerance	±3%
Operating Temperature	-40°C~+85°C
Weight	About 2.2 kg
Size(mm)	1195 X 540 X 2 mm



SOLAR PANEL



GSP SOLAR PANEL 135W

Model	GSP-HG-M2-135W
Maximum power(Pmax)	135W
Open-circuit voltage(Voc)	24.0V
Voltage at Pmax(Vmp)	20.3V
Short-circuit current(Isc)	6.91A
Current at Pmax(Impp)	6.59A
Cells Efficiency(%)	22.7%
The maximum system voltage	1000V DC(IEC)
Power temperature coefficient	-0.42%/°C
Voltage temperature coefficient	-0.32%/°C
Current temperature coefficient	-0.04%/°C
Output power tolerance	±3%
Operating Temperature	-40°C~+85°C
Weight	About 7.7 kg
Size(mm)	1165 X 590 X 35 mm



SOLAR PANEL



GSP FLEXIBLE PANEL 200W

Model	GSP-HG-M2-200W
Maximum power(Pmax)	200W
Open-circuit voltage(Voc)	28.0V
Voltage at Pmax(Vmp)	23.9V
Short-circuit current(Isc)	8.79A
Current at Pmax(Imp)	8.37A
Cells Efficiency(%)	22.7%
The maximum system voltage	1000V DC(IEC)
Power temperature coefficient	-0.38%/°C
Voltage temperature coefficient	-0.36%/°C
Current temperature coefficient	-0.07%/°C
Output power tolerance	±3%
Operating Temperature	-40°C~+85°C
Size(mm)	1175 X 970 X 8
Weight	About 9.8 kg



A photograph of a wind farm at sunset. In the foreground, the dark, grid-like structure of solar panels is visible, angled towards the right. Behind them, several wind turbines stand silhouetted against a vibrant sky of orange, yellow, and purple. The text "SOLAR PANEL" is overlaid in white, serif, all-caps font in the upper left quadrant.



Figure 1. Aerial view of the study area. The area is divided into three main sections: the northern section (top), the central section (middle), and the southern section (bottom). The northern section is characterized by a dense forest of tall trees, while the central and southern sections are dominated by a dense forest of shorter trees. The area is bounded by a road on the left and a river on the right.

Best with

SOLAR PV CONNECTOR (PAIR) (RED/BLACK 1SET)

Best with

SOLAR PV CONNECTOR DIODE 20A

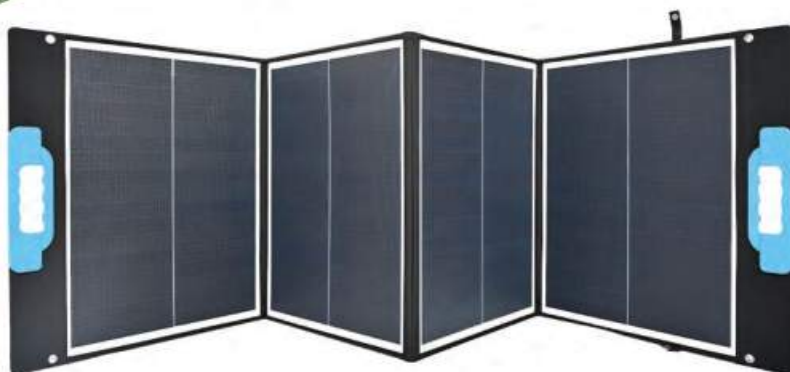
Best with

SOLAR PV CONNECTOR (PAIR) PV004-T2, 1000V, 30A

Best with

SOLAR PV CONNECTOR (PAIR) (RED/BLACK 1SET)

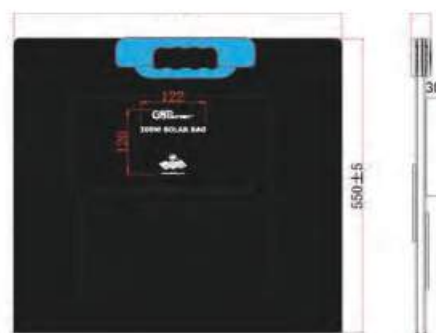
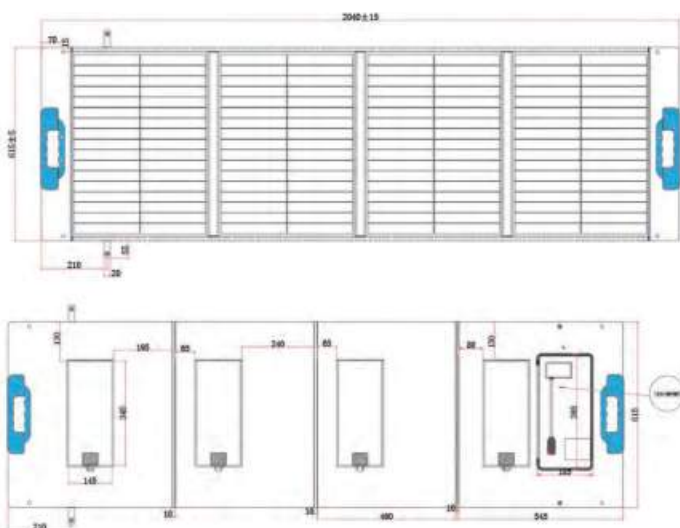
SOLAR BAG



30A Anderson
C Type 1Port



USB Output 5V2A 2Port



SOLAR BAG 200W

Model	GSP SOLAR BAG 200W
System Voltage	12V
Maximum Power	200W
Open Circuit Voltage	23.4V
Voltage at Maximum Power	19.8V
Current at Maximum Power	10.1A
Unfold size	535 x 2250 x 25mm
Folded size	535 x 605 x 45mm
weight	6.2kg

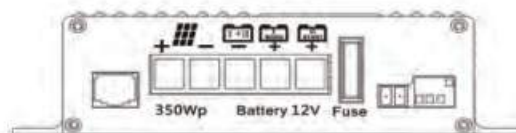
SOLAR BAG



SOLAR BAG 200W MPPT CHARGE CONTROLLER

Model	MPPT 5015A-DUO
Capacity of Solar Module (recommended / max.) :	200Wp
Current Solar Module :	0 - 12A
Voltage Solar Module (Voc) :	max. 50V
Nominal Voltage of Batteries Main1 and Start II :	12V
Charging Current :	0 - 15A
Current Consumption Stand-by (max.):	8 -16mA
Main Port Battery I :	
Charging / Floating / Load Current :	10 - 15A
Charging Voltage Limitation (max.) :	17V
Overload Protection (current limiting device)	Yes
Intergrated Protection against Short-circuit :	Yes
Intergrated Protection against Overtemperature :	Yes
Intergrated Cooling Fan with Temp. Control :	Yes
Unit Fuse(Type FKS) :	30A
Input for Battery IItemperature Sensor :	Yes
Charging Timer	3-fold
Dimension, incl. Mounting Flanges (mm) :	147 x 74 x 40mm
weight :	340g
Ambient Conditions, Humidity of Air :	max. 95% RH,no condensation

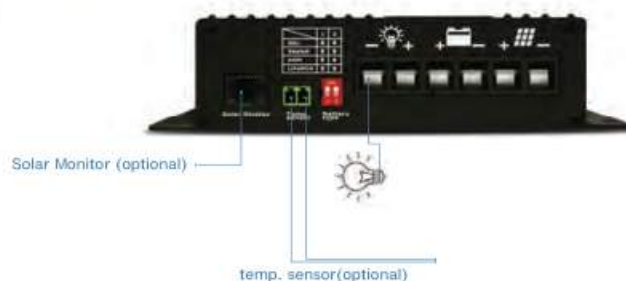
MPPT CHARGER



MPPT SOLAR CHARGE CONTROLLER

Model	MPPT5025 (APP display)
System voltage	12V auto recognition
Max. PV power	350Wp
Max. PV voltage	50V
Max. charge current	25A
Self-consumption(max.)	8-16mA
Recharge the battery voltage	12.7V
HVD(max.)	15V
Max. Load current	25A
Low voltage disconnect	11.0V
Load reconnect voltage	12.5V
Overcurrent protection	YES
Short circuit protectio	YES
Overheat protection	YES
Fan control	YES
Build-in fuse	YES
Temperature sensor	YES
Charging stage	3 stage
Size(L X W X H)	147 X 74 X 40mm
Weight	340g
Max. altitude	max. 95% RH
Optional accessories	temperature sensor LCD meter

MPPT CHARGER



MPPT SOLAR CHARGE CONTROLLER

Model	MPPT5040	
System voltage	12V / 24V auto recognition	
Max. PV power	12V:480Wp / 24V:960Wp	
Max. PV voltage	50V	
Max. charge current	40A	
Self-consumption(max.)	4mA	
Recharge the battery voltage	12V: 13.2V	24V:26.4V
HVD(max.)	12V: 15.5V	24V:31V
Max. Load current	40A	
Low voltage disconnect	12V: 11.0V	24V:22.0V
Load reconnect voltage	12V: 12.5V	24V:25V
Overcurrent protection	YES	
Short circuit protectio	YES	
Overheat protection	YES	
Fan control	YES	
Build-in fuse	YES	
Temperature sensor	YES	
Charging stage	3 stage	
Size(L X W X H)	180 X 146 X 40mm	
Weight	764g	
Max. altitude	max. 95% RH	
Optional accessories	temperature sensor	
	LCD meter	

MPPT CHARGER

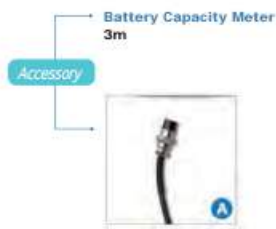


Model	MPPT250100
Controller type	Controller with Maximum Power Point Tracking (MPPT)
MPPT efficiency	>99.5%
No-load static loss	1W~1.2W
Battery system voltage	12V/24V/48V Auto
Self-consumption(max.)	Fan cooling
PV Maximum Open Circuit Voltage (VOC)	250Vdc
Start charging voltage point	3V higher than battery voltage
Input low voltage protection point	2V higher than the current battery voltage
Input overvoltage protection point	250Vdc
Rated Input Power/ 12V 24V 36V 48V System	1300W / 2600W / 3900W / 5200W
Applicable battery type	Lead-acid battery / Li-ion battery / LIFEPO4
Lithium battery activation function	Optional
Rated load current	50A
Working temperature	-20°C~+55°C
Storage temperature	-40°C~+70°C
Size(L X W X H)	305 X 200 X 85 mm
weight	About 3.4kg

MULTI POWER TAP



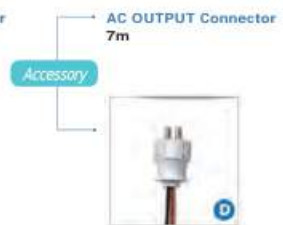
Model	DC MULTI POWER TAP
weight	About 450g
Size(L X W X H)	200 X 73.8 X 94



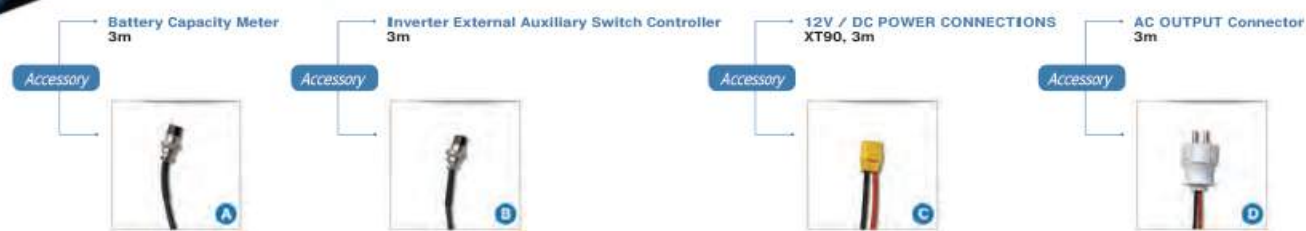
Model	DC MULTI POWER TAP B type
weight	About 700g
Size(L X W X H)	221 X 114 X 77



Model	ALL IN ONE MULTI POWER TAP
weight	About 800g
Size(L X W X H)	260 X 143 X 76



ALL IN ONE MULTI PANEL



Model	ALL IN ONE MULTI PANEL A type
Function	Battery Capacity Meter Inverter Remote S/W-1Port DC Remote S/W-1Port External Remote S/W-3Port AC Output-1Port PD,USB-1Port Cigar Socket Max 180W-3Port
Case/Weight	Aluminium/ About
Size(L X W)	300 X 180



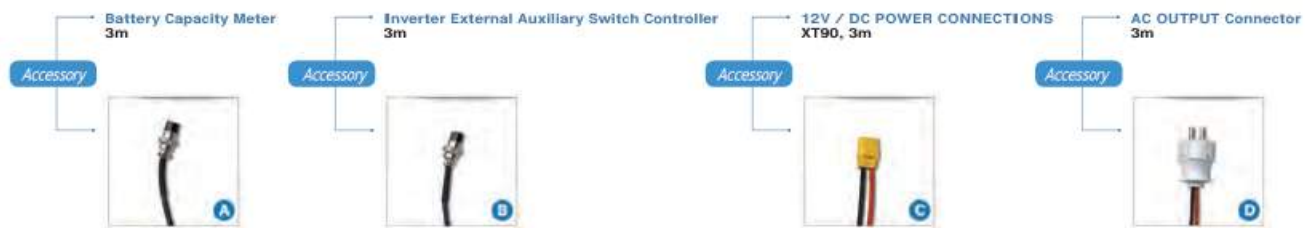
Model	ALL IN ONE MULTI PANEL B type
Function	Battery Capacity Meter Inverter Remote S/W-1Port DC Remote S/W-1Port External Remote S/W-3Port AC Output-1Port PD,USB-1Port Cigar Socket Max 180W-3Port
Case/Weight	Aluminium/ About
Size(L X W)	160 X 220



Model	ALL IN ONE MULTI PANEL C type
Function	Battery Capacity Meter Inverter Remote S/W-1Port DC Remote S/W-1Port External Remote S/W-3Port AC Output-1Port PD,USB-1Port Cigar Socket Max 180W-3Port
Case/Weight	Aluminium/ About
Size(L X W)	190 X 170



ALL IN ONE MULTI PANEL



Model	ALL IN ONE MULTI PANEL D type
Function	Battery Capacity Meter Inverter Remote S/W-1Port DC Remote S/W-1Port External Remote S/W-3Port AC Output-1Port PD,USB-1Port Cigar Socket Max 180W-2Port XT-90 male (Max. 90A 1Port)
Case/Weight	Aluminium/ About
Size(L X W)	250 X 140



Model	ALL IN ONE MULTI PANEL E type
Function	Battery Capacity Meter Inverter Remote S/W-1Port DC Remote S/W-1Port External Remote S/W-3Port AC Output-1Port PD,USB-1Port Cigar Socket Max 180W-1Port XT-90 male (Max. 90A 1Port)
Case/Weight	Aluminium/ About
Size(L X W)	140(118) X 168(178)



INVERTER (PURE SINE WAVE) DC TO AC

Waveform	pure sine wave
Cooling fan	yes
Output frequency	50 / 60Hz
Availability power	≥91%



Model	GSP-PS12-1000
Input voltage	DC 12V (10.5-14.8V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	1000W
Peak power	2000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1A
Overload protection	> 1000W
Overheat protection	> 60℃
Size(L X W X H) / weight	275(300.5) X 198 X 83mm / About 3Kg

Model	GSP-PS12-2000
Input voltage	DC 12V (10.5-14.8V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	2000W
Peak power	4000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1.2A
Overload protection	> 2000W
Overheat protection	> 60℃
Size(L X W X H) / weight	275(300.5) X 198 X 83mm / About 3.5Kg

L : length, W : width, H : height



Model	GSP-PS12-3000
Input voltage	DC 12V (10.5-14.8V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	3000W
Peak power	6000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1.2A
Overload protection	> 3000W
Overheat protection	> 60℃
Size(L X W X H) / weight	308(330.5) X 198 X 83mm / About 6.5Kg

INVERTER (PURE SINE WAVE) DC TO AC

Waveform	pure sine wave
Cooling fan	yes
Output frequency	50 / 60Hz
Availability power	≥91%



Model	GSP-PS12-4000
Input voltage	DC 12V (10.5-14.8V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	4000W
Peak power	8000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1.2A
Overload protection	> 4000W
Overheat protection	> 60℃
Size(L X W X H) / weight	387.5(450) X 198 X 83mm / About 7Kg

Model	GSP-PS12-5000
Input voltage	DC 12V (10.5-14.8V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	5000W
Peak power	10000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1.2A
Overload protection	> 5000W
Overheat protection	> 60℃
Size(L X W X H) / weight	387.5(450) X 198 X 83mm / About 7Kg



Model	GSP-PS24-2000
Input voltage	DC 24V (21-30V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	2000W
Peak power	4000W
Low voltage alarm	11V ± 0.3V
Low voltage shut down	10.5V ± 0.3V
Over voltage shut down	15.7V ± 0.3V
Non-load current	1.2A
Overload protection	> 2000W
Overheat protection	> 60℃
Size(L X W X H) / weight	308(330.5) X 198 X 83mm / About 6.5Kg

Model	GSP-PS24-3000
Input voltage	DC 24V (21-30V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	3000W
Peak power	6000W
Low voltage alarm	22.0V ± 0.3V
Low voltage shut down	21.0V ± 0.3V
Over voltage shut down	31.5V ± 0.3V
Non-load current	0.6A
Overload protection	> 3000W
Overheat protection	> 60℃
Size(L X W X H) / weight	308(330.5) X 198 X 83mm / About 6.5Kg

INVERTER (PURE SINE WAVE) DC TO AC

Waveform	pure sine wave
Cooling fan	yes
Output frequency	50 / 60Hz
Availability power	≥91%



Model	GSP-PS24-4000
Input voltage	DC 24V (21-30V)
Out voltage	AC 100V/110V/120V/220V/230V/240V
Continuous output power	4000W
Peak power	8000W
Low voltage alarm	22V ± 0.3V
Low voltage shut down	21V ± 0.3V
Over voltage shut down	31.5V ± 0.3V
Non-load current	1.2A
Overload protection	> 4000W
Overheat protection	> 60℃
Size(L X W X H) / weight	387.5(450) X 198 X 83mm / About 7Kg

INVERTER ON/OFF SWITCH CONNECTOR
About 2.8m

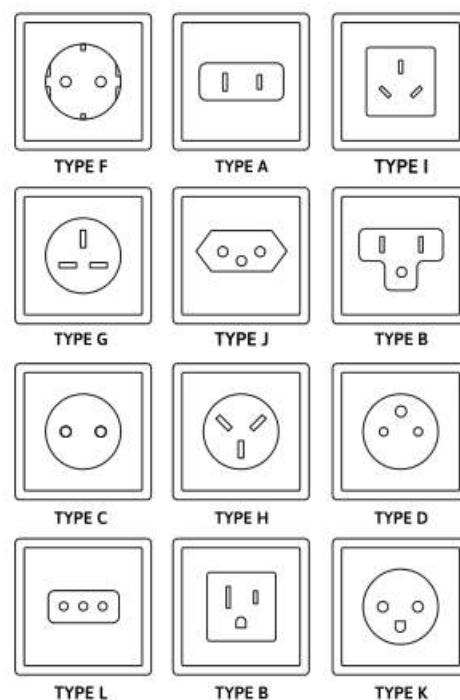


INVERTER SILICON WIRE
4AWG



Model	GSP-PS24-5000
Input voltage	DC 24V (21-30V)
Out voltage	AC 220V
Continuous output power	5000W
Peak power	10000W
Low voltage alarm	22V ± 0.3V
Low voltage shut down	21V ± 0.3V
Over voltage shut down	31.5V ± 0.3V
Non-load current	1.5A
Overload protection	> 5000W
Overheat protection	> 60℃
Size(L X W X H) / weight	387.5(450) X 198 X 83mm / About 7Kg

Adjustable for various country plug socket types



BI-DIRECTIONAL INVERTER

Waveform	pure sine wave
Cooling fan	yes
Output frequency	50 / 60Hz
Availability power	≥90.5%



Model	GSP12-BIC 2000
Input voltage	DC 12V (10.5-16.5V)
Out voltage	AC 220V
Continuous output power	2000W
Peak power	4000W
Battery Low Alarm	11.0V
Battery Low Disconnect	10.5V
High voltage protection	> 17V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 2000W
Charging Voltage Range	13.8V - 14.8V (Default : 14.2V)
Charge Current Range	10A - 80A
Overheat protection	> 60℃
Size(L X W X H) / weight	346.5 X 231 X 104.5 / About 5.9kg



Model	GSP12-BIC 3000
Input voltage	DC 12V (10.5-16.5V)
Out voltage	AC 220V
Continuous output power	3000W
Peak power	6000W
Battery Low Alarm	11.0V
Battery Low Disconnect	10.5V
High voltage protection	> 17V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 3000W
Charging Voltage Range	13.8V - 14.8V (Default : 14.2V)
Charge Current Range	25A - 100A
Overheat protection	> 60℃
Size(L X W X H) / weight	434.5 X 268.5 X 114.5 / About 7.4kg



Model	GSP12-BIC 4000
Input voltage	DC 12V (10.5-16.5V)
Out voltage	AC 220V
Continuous output power	4000W
Peak power	8000W
Battery Low Alarm	11.0V
Battery Low Disconnect	10.5V
High voltage protection	> 17V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 4000W
Charging Voltage Range	13.8V - 14.8V (Default : 14.2V)
Charge Current Range	25A - 120A
Overheat protection	> 60℃
Size(L X W X H) / weight	434.5 X 268.5 X 114.5 / About 8kg

BI-DIRECTIONAL INVERTER



Model	GSP24-BIC 2000
Input voltage	DC 24V (21-32V)
Out voltage	AC 220V
Continuous output power	2000W
Peak power	4000W
Battery Low Alarm	21V
Battery Low Disconnect	21V
High voltage protection	> 32V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 2000W
Charging Voltage Range	27V - 29.6V
Charge Current Range	5A - 40A
Overheat protection	> 60℃
Size(L X W X H) / weight	346.5 X 231 X 104.5 / About 6.4kg



Model	GSP24-BIC 3000
Input voltage	DC 24V (21-32V)
Out voltage	AC 220V
Continuous output power	3000W
Peak power	6000W
Battery Low Alarm	21V
Battery Low Disconnect	21V
High voltage protection	> 32V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 3000W
Charging Voltage Range	27V - 29.6V
Charge Current Range	10A - 50A
Overheat protection	> 60℃
Size(L X W X H) / weight	434.5 X 268.5 X 114.5 / About 8kg



Model	GSP24-BIC 4000
Input voltage	DC 24V (21-32V)
Out voltage	AC 220V
Continuous output power	4000W
Peak power	8000W
Battery Low Alarm	21V
Battery Low Disconnect	21V
High voltage protection	> 32V
Non-load current(Power Saving Mode)	≤0.8 ADC
Overload protection	> 4000W
Charging Voltage Range	27V - 29.6V
Charge Current Range	10A - 80A
Overheat protection	> 60℃
Size(L X W X H) / weight	434.5 X 268.5 X 114.5 / About 8kg

HYBRID INVERTER



Model	GSP48-HBI6200 ECO
Maxium Load Cut Off Voltage	52VDC
Maxium Load Return Voltage	54VDC
Nominal DC Voltage	48VDC
Maximum PV Input Power	6500W
Rated Output Power	6200W/6200VA
Maximum Solar Charging Current	120A
Nominal DC Voltage/Maximum DC Voltage	360/500VDC
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC
MPPT Voltage Range	60~450VDC
Maximum Input Current	1/22A
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	195.5~253VAC
Nominal Output Current	27.0A
Maximum Conversion Efficiency (DC/AC)	98%
Full Load / Maxium Second Load(battery mode)	6200W / 2067W
AC Start-up Voltage / Auto Restart Voltage	120~140VAC/180VAC
Acceptable Input Voltage Range	90~280VAC or 170~280VAC
Frequency Range	49~51 ± 1HZ
Output Waveform	Pure sine wave
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY
Humidity	5% to 95% Relative Humidity(Non condensing)
Operating Temperature	-10°C 50°C
Size(L X W X H)	435 X 358.5 X 116 mm
weight	About 9kg

HYBRID INVERTER



Model	GSP48-HBI8200 PRO
Maxium Load Cut Off Voltage	52VDC
Maxium Load Return Voltage	54VDC
Nominal DC Voltage	48VDC
Maximum PV Input Power	5400W+5400W
Rated Output Power	8200W/8200VA
Maximum Solar Charging Current	160A
Nominal DC Voltage/Maximum DC Voltage	360/500VDC
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC
MPPT Voltage Range	90~450VDC
Maximum Input Current	2/18A
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	190~253VAC
Nominal Output Current	35.6A
Maximum Conversion Efficiency (DC/AC)	98%
Full Load / Maxium Second Load(battery mode)	8200W / 2733W
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Frequency Range	49~51 ± 1HZ
Output Waveform	Pure sine wave
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY
Humidity	5% to 95% Relative Humidity(Non condensing)
Operating Temperature	-10°C 50°C
Size(L X W X H)	549 X 404.5 X 138 mm
weight	About 15.8kg

HYBRID INVERTER



Model	GSP48-HBI10200 PRO
Maxium Load Cut Off Voltage	52VDC
Maxium Load Return Voltage	54VDC
Nominal DC Voltage	48VDC
Maximum PV Input Power	5400W+5400W
Rated Output Power	10200W/10200VA
Maximum Solar Charging Current	160A
Nominal DC Voltage/Maximum DC Voltage	360/500VDC
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC
MPPT Voltage Range	90~450VDC
Maximum Input Current	2/18A
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	190~253VAC
Nominal Output Current	44.3A
Maximum Conversion Efficiency (DC/AC)	98%
Full Load / Maxium Second Load(battery mode)	10200W / 3400W
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Frequency Range	49~51 ± 1HZ
Output Waveform	Pure sine wave
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY
Humidity	5% to 95% Relative Humidity(Non condensing)
Operating Temperature	-10°C 50°C
Size(L X W X H)	549 X 404.5 X 138 mm
weight	About 16.2kg

Silicone Wires Solar PV Single Core

99% PURE SILICONE WIRES

Temperature range : -60

Test voltage : 200V

Conductors : Copper coated with tin

Insulator : Silicon

AWG	Wire thickness (mm)	Conductors		Silicone insulation		MAX nesistance (0hm/km)	Continuous Current (A)	Instanfaneous Current (A)
		Conductors (Number of Strands/mm)	Conductors diameter (mm)	Sheath thickness (mm)	Outer diameter (mm)			
1 AWG	50 SQ	10000/0.08	10.2	2.6	13.5	0.63	500	630
2 AWG	33.5 SQ	6700/0.08	7.56	2.47	12.5	0.53	245	500
4 AWG	25 SQ	5000/0.08	7.2	2.4	10.5	1.25	250	400
6 AWG	16 SQ	3200/0.08	5.2	1.65	8.5	1.9	160	300
8 AWG	8.3 SQ	1650/0.08	3.5	1.5	6	3.7	83	190
12 AWG	3.4 SQ	680/0.08	2.48	1	4.5	9.8	34	88
14 AWG	2 SQ	400/0.08	1.78	0.9	3.5	15.6	20	55
18 AWG	0.75 SQ	150/0.08	1.19	0.55	2.3	39.5	7	22
20 AWG	0.5 SQ	100/0.08	0.92	0.55	1.8	62.5	5	13

Solar PV Single Core (100M)

Parameters

Rated Voltage DC 1,0kV

Ambient Temperature -40°C to +90 °C



Headquarters & Korea Factory

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