



Stock Code
832266

SEMOKII[®]
An MPMC Brand

MPMC GROUP OF COMPANIES



Generator Sets



Lighting Towers



Hybrid Energy Solutions



BESS



Reefer Container Gensets

WWW.MPMC-GROUP.COM



MPMC USA



MPMC UK



MPMC ZA



MPMC UAE



MPMC CN

SEMOKII BESS CO., LTD.

No. 2399 Fazhan Ave, Haimen Port New Area,
Jiangsu 226156, China

sales@mpmc-china.com

www.mpmchybrid.com

www.mpmc-china.com

www.mpmc-group.com

MPMC LI-ION - 2023 All rights reserved



LI-ION BATTERIES

EVs / Electric Forklifts
Uninterrupted Power Supply / Electric Boats
Automated Guided Vehicles / Power Tools / Drones



SEMOKII BESS CO., LTD.

SEMOOKII® is powered by highly skilled technical experts who have rich experience in lithium battery energy storage systems for over 25 years. We design, engineer and manufacture state-of-the-art integrated/distributed energy solutions by optimizing solar power, wind turbines, diesel power, hydrogen fuel cells, lithium-ion batteries and energy storage systems. Our solutions cover a wide range of applications including residential BESS, commercial & industrial BESS, portable power stations and LiFePO4 battery packs of low-speed electric vehicles, utility electric vehicles, AGVs, electric boats and drones etc.

Owned by its parent company MPMC POWERTECH CORP. (Security Code 832266) is an international high-tech enterprise in Shanghai, a world-leading distributed hybrid energy solution provider. Through taking full advantages of its independent R&D, productive intellectual property, full-process manufacturing and global marketing & services. With products sold to more than 120 countries & regions, MPMC has established holding subsidiaries and offices in the USA and China, and have representatives in UK, South Africa and UAE.

SEMOOKII® inherited rigorous quality control system and production management system from MPMC, and is dedicated to providing power independence and real energy freedom to homes and businesses anywhere in the world! Our solutions are customized to the needs of each market in USA, UK, Italy, Czech, Spain, Netherlands, Poland and Japan etc. Today, SEMOOKII powers thousands of homes and businesses around the world. We help customers store clean power, gain energy independence, hedge against climbing grid fees and contribute to the reduction of carbon emissions on our planet.

World-Class Lithium-Ion Batteries Provider

Applications

Height climbing vehicle & DiggerP3



LEVs & UEVsP5



UPSP7



Electric BoatsP9



AGVsP10



Power ToolsP11



DronesP12



Batteries for Two-Wheel EVs

LiFePO4



The lithium-ion batteries independently developed by SEMOOKII LI-ION for two-wheel electric vehicles can meet the different needs of users. It adopts a full range of high-energy-density lithium iron phosphate batteries, which is smaller in size, lighter in weight, and safer to use. Good battery performance can ensure that even if it is not used for two months, its power can stay at not less than 80%, and the cycle life is up to 2000 times. MPMC LI-ION lithium-ion battery is equipped with an exclusive BMS to comprehensively protect the battery's charging, discharging and use safety, and ensure the safety of users' riding.



Key Features

1. ≥ 2000 cycle life
2. Good low-temperature performance
3. Capacity Attenuation is below 20% after 2 months
4. Quick-charging time only takes 2-3 hours
5. Light in weight and long in service time
6. Environment friendly



Specification

Customization Available

Two-Wheel EVs Battery

Cell Chemistry	LiFePO4		
System Capacity	614.4Wh	921.6Wh	1536Wh
Rated Voltage	51.2V		
Rated Capacity	12Ah	18Ah	30Ah
Charging Current	5A		
Operating Temperature	-10°C~+50°C		
Humidity	10%~90%		
Altitude	$\leq 2000\text{m}$		
IP Protection	IP65		
Cycle Life	≥ 2000		
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance		
Weight	7kg	10kg	15kg

Electric Motorcycle Battery

Cell Chemistry	LiFe PO4			
System Capacity	1152Wh	1536Wh	1843.2Wh	2304Wh
Norminal Voltage	64V		76.8V	
Norminal Capacity	18Ah	24Ah	24Ah	30Ah
Charging Current	10A			
Operating Temperature	-10°C~+50°C			
Humidity	10%~90%			
Altitude	$\leq 2000\text{m}$			
IP Protection	IP65			
Cycle Life	≥ 2000			
BMS Protection Function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance			
Weight	12kg	15kg	20kg	23kg



Specification

Customization Available



Light Electric Vehicles Battery

Cell Chemistry	LiFePO4				
System Capacity	1440Wh	2880Wh	2304Wh	4608Wh	11.52kWh
Normal Voltage	48V		76.8V		
Normal Capacity	30Ah	60Ah	30Ah	60Ah	150Ah
Charging Current	10A	20A	10A	20A	50A
Operating Temperature	-10°C~+50°C				
Humidity	10%~90%				
Altitude	≤2000m				
IP Protection	IP65			IP67	
Cycle Life	≥2000				
BMS Protection Function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance				
Weight	15kg	30kg	23kg	45kg	120kg

In order to meet various applications, MPMC LI-ION independently put out lithium-ion battery packs for light electric vehicles, various electric special vehicles, including electric tricycles, electric low-speed vehicles, electric utility vehicles and electric forklifts. Its adopts the safer and smaller lithium iron phosphate batteries with high energy density, which have a longer cycle life and provide users with more and safer power.



Key Features

1. ≥ 2000 cycle life
2. Good low-temperature performance
3. Capacity Attenuation is below 20% in 2 months
4. Quick-charging time only takes 2-3 hours
5. Light in weight and long in service time
6. Environment-friendly



Electric Forklifts Battery

Cell Chemistry	LiFePO4	
System Capacity	14.4kWh	24kWh
Normal Voltage	48V	80V
Normal Capacity	300Ah	
charging current	150A	
Discharge current	200A	
Operating Temperature	-10°C~+50°C	
Humidity	10%~90%	
Altitude	≤2000m	
IP Protection	IP54	
Cycle Life	≥2000	
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance	

UPS Backup Power

LiFePO4



Every year it costs \$1.25 to \$2.5 billion dollars on an average on unplanned downtime caused by power outages for Fortune 1000 companies. A recent study initiated by Ponemon Institute indicated that average costs of data center downtime alone can reach an alarming \$5,600 per minute or \$336,000 per hour. It also indicated 29% of the root causes are UPS system Failure.

SEMOOKII LI-ION Batteries solution for UPS system maintains steady performance with high density batteries, improving space utilization for concatenating lesser series batteries. Sophisticated solutions ensure MPMC UPS back-up power to provide reliability, resiliency and security of data to a wide range of applications.



Key Features

1. Stable uninterrupted power supply responding to unplanned power outages.
2. Cabinet with mesh to ensure good heat dissipation and safety.
3. Aluminium made, light in weight. Easy to move and operate.
4. Smart touch screen to monitor operation status, including system voltage, system current, cell voltage and temperature.
5. Long lifespan.

- Server Room
- Network Closets
- Data Centers
- Telecommunication Utilities
- Industrial Power Solutions

Specification

Customization Available

Cell Chemistry	Lithium-ion
System Capacity	14.4kWh
Charging Current	100A
Output Power	15kW
Operating Temperature	-10°C~+50°C
Humidity	10%~90%
Altitude	≤2000m
IP Protection	IP54
Cycle Life	10 years
BMS Protection Function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance



Batteries for Electric Ships

Lithium-ion



Batteries for AGVs

Lithium-ion



At present, lead-acid batteries are still mainly used on electric ships such as tourist ships and small sightseeing ships. However, due to their poor safety performance, low capacity density, and short life, it is easy to cause explosions and other safety accidents. Compared with lead-acid batteries, lithium iron phosphate batteries not only have the advantages of zero emission, high safety, but also have small size, fast charging speed, and can adjust the capacity freely, and have high use value.



Specification

Cell Chemistry	LiFePO4
System Capacity	9.2kWh
Norminal Voltage	76.8V
Norminal Capacity	120Ah
Charging Current	50A
Discharge Current	60A
Operating Temperature	-10°C~+50°C
Humidity	10%~90%
Altitude	≤2000m
IP Protection	IP67
Cycle Life	≥2000
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance

Nowadays, AGV, automated guided vehicles are more and more widely used in industrial production. SEMOOKII LI-ION independently developed and manufactured a lithium battery energy storage system that accept customization. For various application scenarios, the use of high energy density lithium iron phosphate batteries has the characteristics of large capacity, small size, light weight, long cycle life, good performance, etc., which can reduce the number of charging times and maintenance costs.



Specification

Cell Chemistry	LiFePO4	
System Capacity	512Wh	1536Wh
Norminal Voltage	25.6V	51.2V
Norminal Capacity	20Ah	30Ah
charging current	10A	
Discharge current	15A	20A
Operating Temperature	-10°C~+50°C	
Humidity	10%~90%	
Altitude	≤2000m	
IP Protection	IP54	
Cycle Life	≥2000	
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance	

Batteries for Power Tools

Lithium-ion



Regarding the power consumption characteristics of power tools, SEMOOKII LI-ION put out a specific lithium-ion battery that can discharge quickly and has a long service life. It's also featured by excellent performance in extreme hot or cold weather and multiple protection of the BMS. We not only select well-known battery cells, but also accept customization according to customers' requirement.



Specification

Cell Chemistry	Ternary lithium
System Capacity	72Wh
Norminal Voltage	12V
Norminal Capacity	6Ah
charging current	3A
Discharge current	10C
Operating Temperature	-10°C~+50°C
Humidity	10%~90%
Altitude	≤2000m
IP Protection	IP54
Cycle Life	≥2000
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance

Batteries for Drones

Lithium-ion



The drone needs to overcome its own weight to fly, which has high requirements on the weight of the battery, as well as battery capacity. The battery power will increase rapidly when the drone is rapidly rising from the hovering state to the maximum speed. SEMOOKII LI-ION lithium battery uses a high-energy density ternary lithium-ion battery to provide sufficient power while having a smaller size and lighter weight, and can meet several times of power changes in a short period of time.



Specification

Cell Chemistry	Ternary lithium	
System Capacity	37Wh	220Wh
Norminal Voltage	7.4V	22.2V
Norminal Capacity	5Ah	10Ah
charging current	2A	5A
Discharge current	5A	10A
Operating Temperature	-10°C~+50°C	
Humidity	10%~90%	
Altitude	≤2000m	
IP Protection	IP54	
Cycle Life	≥2000	
BMS protection function	Overcharge protection, over discharge protection, over voltage protection, over temperature protection, over current protection, short circuit protection, balance	



**“MORE POWER
MORE CONFIDENCE”**



**To become
a world-class batteries solutions provider**