

MPMC GROUP OF COMPANIES



Generator Sets



Lighting Towers



Hybrid Energy Solutions



BESS



Reefer Container Gensets

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MPMC USA



MPMC UK



MPMC UAE



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MPMC CN

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ENERGY STORAGE

2022 MODULAR HOME BATTERIES

FOR ALL RESIDENTIAL ESS SOLUTIONS

Semookii[®]
A member of MPMC POWERTECH CORP.



About Us

Semookii®
A member of **MPMC POWERTECH CORP.**

SEMOKII

MPMC

BEYOND ENERGY



120+

MPMC products have been exported to more than 120 countries



70+

4 categories of more than 70 types of products



60+

Over 60 global distributors



50+

50 experts who focus on various applications



77+

3 invention patents & 74 utility mode patents

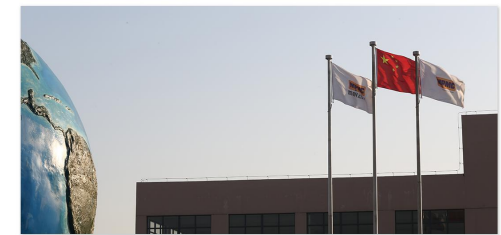
World-Class Hybrid Energy and Battery Storage Solution Innovator

MPMC POWERTECH CORP. (Stock Code 832266) is an international high-tech enterprise established in the year 2008. As a world-class hybrid energy and battery storage solution innovator, MPMC specializes in providing intelligent generator sets, mobile lighting towers, distributed All-In-One hybrid micro-power stations and other smart cloud energy management solutions to worldwide.

Taking full advantages of its independent R&D, productive intellectual property, full-process manufacturing and global marketing & services, MPMC has established holding subsidiaries and offices in the USA, South Africa, UK, UAE and China. Up to now, with products sold to more than 120 countries & regions, distributors of MPMC have covered a wide range of countries & regions in the Americas, Europe, Oceania, Africa, Middle East and Southeast Asia.

Semookii®, a sub-brand of MPMC POWERTECH CORP., was born to provide better solutions of hybrid energy system and a wide range of state-of-art lithium-ion batteries by optimizing electrochemistry power and hybrid energy system integration, especially for **Residential Battery Energy Storage**.

We provide a variety of battery solutions for all kinds of household applications such as AC-coupled system, DC-coupled system and hybrid-coupled system. The home battery system adopts modular design, featured by quick installation, scalability, easy maintenance and indoor/outdoor compatibility. We are always dedicated to help our customers realized self-sufficient energy supply and independent off-grid power supply.



Energy Solutions

Comprehensive Residential ESS

ENERGY INDEPENDENCE

Nowadays, the solar installation is rapidly increasing, however it's not enough to realize an independent and stable renewable energy system. It always happens that solar panels produce extra energy at day when your family are at work or school. But when the power demand is higher, there's not enough solar energy. **Semookii® Home Battery Energy Storage** solutions are capable of various operation modes to help you maximize utilization of solar energy.

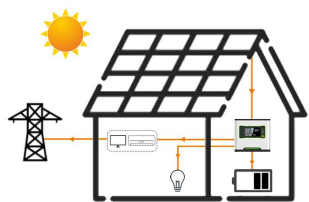


COST REDUCTION

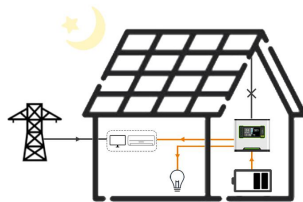
Under the help of **Semookii® Home Battery Energy Storage System**, you will benefit more due to the better utilization of solar energy, which will reduce the consumption from the grid. You may also lower your electric bills by using the stored energy to power your home at home, which is usually called peak shaving and loads shifting.



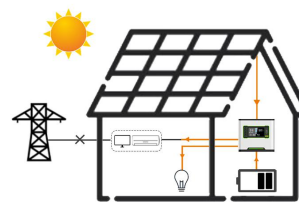
How it works?



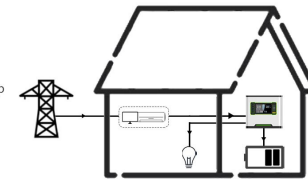
Mode A
The energy produced by the PV system is used to optimize self-consumption. The excess energy is used to recharge the batteries, then exported to grid.



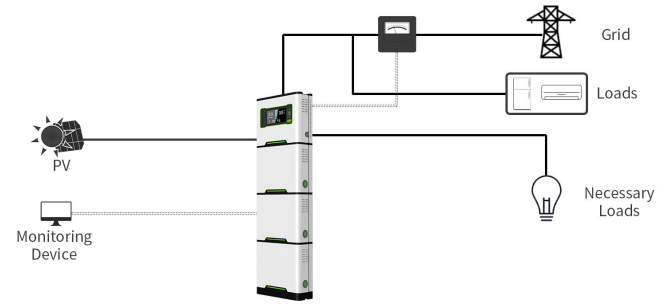
Mode B
When there is no PV, and the battery is sufficient, it can supply the load together with grid power.



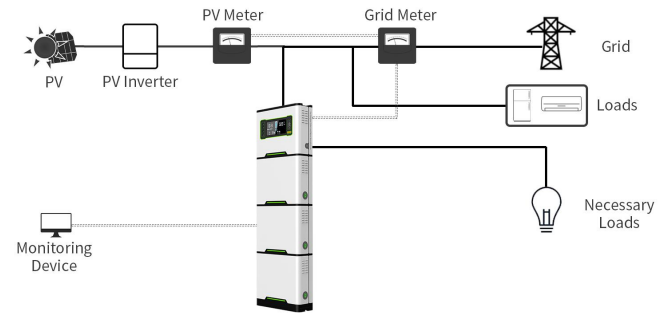
Mode C
When grid fails, the system automatically switches to back-up mode. The back-up load can be supported by PV and battery.



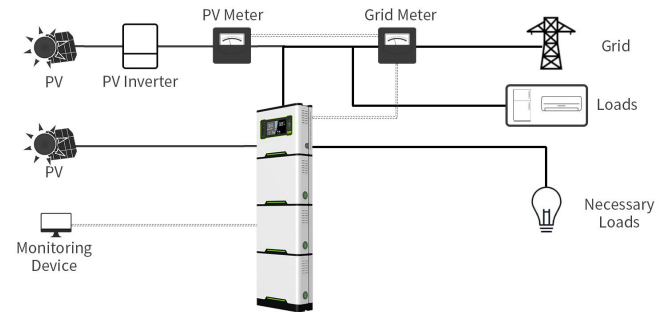
Mode D
Battery can be charged by grid, and charging time/power can be set on APP.



DC Coupled



AC Coupled



HYBRID Coupled

Modular ESS

Modular Designed
Integrated battery energy storage system



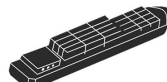
SAFE



EASY EXPANSION



FAST RESPONSE



EASY TRANSPORTATION



REMOTE CONTROL



HIGH EFFICIENCY

16

UP TO 16 INVERTERS
IN PARALLEL



STABLE POWER SUPPLY
(UPS)

HBC PRO Coming soon...
SUITABLE FOR BOTH
INDOOR & OUTDOOR



HBC
SUITABLE FOR INDOOR



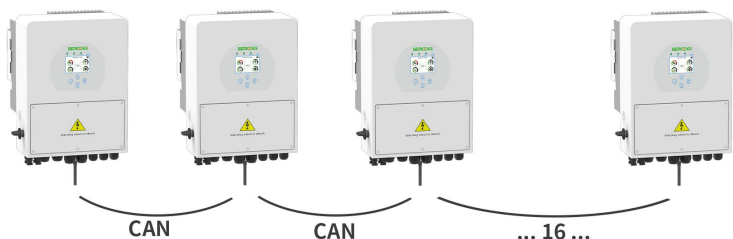
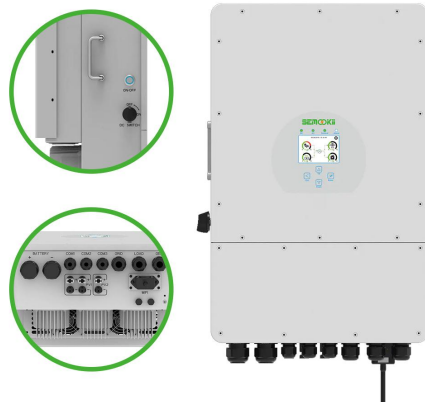
HBC TECH
SUITABLE FOR OUTDOOR

SPECIFICATION

Inverters

Features

1. Applied in DC-coupled system (new installation), AC-coupled system (retrofit) & Hybrid-coupled system (retrofit and PV capacity-increase);
2. Modular design, maximum allowable 16 pcs inverters in parallel;
3. Supports using diesel generator to charge battery directly ensuring system energy supply 7x24h;
4. 4ms fast transfer from on-grid to off-grid mode, ensuring the traditional fixed frequency air conditioner works well.



16
Maximum
In Parallel

Datasheet

MODEL	HBC-3	HBC-5	HBC-10
Nominal AC Output & UPS Power	3000 W	5000 W	10000 W
Rated Voltage	230 V	230 V	400/230 V
Rated Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phase	Single Phase	Single Phase	Three Phase
Max. PV Input Power	3900 W	6500 W	13000 W
Max. PV Input Voltage	500 V	500 V	800 V
Number of MPPT / Strings per MPPT	1/1	2/1+1	2/2+1
MPPT Voltage Range	150 ~ 425 V	150 ~ 425 V	200 ~ 650 V
Start Up DC Voltage	125 V	125 V	160 V
Max. PV Input Current	13 A	13 + 13 A	26 + 13 A
Max. PV Short-circuit Current	17 A	17 + 17 A	34 + 17 A
Max. Charging/Discharging Current	70 A	70 A	210 A
Dimension (W x H x D)	366 × 471 × 261 mm		422 × 702 × 281 mm
Weight	14 kg		34.5kg
Communication	Wi-Fi / Ethernet/ 4G (Optional)		
IP Protection	IP65		
Warranty	5 years		
Safety / EMC	IEC62109-1/-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4		
Grid Regulation	EN50549, AS4777.2, VDE0126, IEC61727, VDEN4105, G99, NBT32004, CEI0-21, NRS097, NBR16149/16150, RD1699		

SPECIFICATION

Modular Batteries

Features

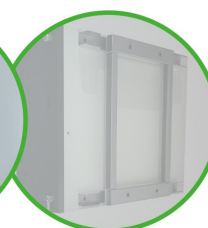
1. Excellent safety of cobalt free LiFePO4 battery;
2. A longer service life with LiFePO4 battery cell;
3. Modular design, maximum allowable 6 pcs battery packs in parallel;
4. Multiple installation methods suitable for kinds of applications;
5. Proven BMS with complete protection for discharging/charging/short circuit.



Multiple Installation Methods



Wall-mounted



Wall-against



Superimposition

Datasheet

Battery Model	BAT-3E	BAT-5E
Battery Type	LFP (LiFePO4)	LFP (LiFePO4)
Module Capacity	3.37 kWh	5.12 kWh
Module Nominal Voltage	51.2 V	51.2 V
Capacity Range	3.37 ~ 20.2 kWh	5.1 ~ 30.7 kWh
	(90% DoD)	(90% DoD)
Usable Capacity Range	3.0 ~ 18.2 kWh	4.6 ~ 27.6 kWh
Max. Modules in Parallel	6	6
Max. Charging/Discharging Current	60 A (1C)	100 A (1C)
Cycle Life	2000	2000
Dimension (W x H x D)	530x400x155mm	530x400x216mm
Weight	30kg	58kg
Operating Temperature Range	-10 °C ~ 50 °C	
IP Protection	IP20	
Warranty	2 years	
Transportation Certification	UN38.3	
Safety	IEC 62619 (Cell), IEC 62619 (Pack)	