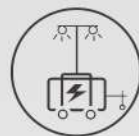


MPMC GROUP OF COMPANIES



Generator Sets



Lighting Towers



Hybrid Energy Solutions



BESS



Reefer Container Gensets

WWW.MPMC-GROUP.COM



MPMC USA



MPMC UK



MPMC UAE



MPMC ZA



MPMC CN

MPMC POWERTECH CORP.

- ✉ sales@mpmc-china.com
- 📍 No.2399 Fazhan Ave, Haimen Port New Area,
Jiangsu 226156, China
- 🌐 www.mpmchybrid.com www.mpmc.us
www.mpmc-china.com www.mpmc-group.com

MPMC Hybrid®- 2023 ©All rights reserved

All the information in this document is substantially correct at time of printing and may be altered subsequently.

POWER

ON



HYBRID ENERGY SOLUTIONS

Residential | Commercial | Industrial

World-leading Distributed Hybrid Energy Solution Provider



In order to provide better mobile hybrid energy solutions, MPMC POWERTECH CORP. designs, manufactures and markets a wide range of state-of-the-art LiFePO4 battery energy storage solutions by optimizing electrochemistry power and hybrid energy system integration. Our products help to realize self-sufficient energy supply in residential, commercial, industrial energy storage, etc.

MPMC POWERTECH CORP. (Security Code 832266) is an international high-tech enterprise established in the Year 2008. As a world-class mobile hybrid energy solution provider, 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 and China, and have representatives in UK, South Africa and UAE. 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.

MPMC has also co-founded a joint laboratory of distributed smart hybrid energy technology with TONGJI University, one of the most prestigious universities in China. By utilizing the self-developed APP named "More Power Cloud", the laboratory is striving to conduct various technical researches on global hybrid intelligent life-cycle management.

To become a leader in mobile hybrid power solution, with more reliable, more intelligent and more attentive services, MPMC makes every endeavour to provide the most timely, customized and comprehensive solutions of smart hybrid energy to the global customers.

With more reliable, more intelligent and more considerate service, MPMC provides "More Power, More Confidence" to global customers.



120 Countries

Products are exported to 120 countries



70+ Types

4 categories of 70+ types of products



60+ Distributors

Over 60 global distributors



50 Specialists

50 experts focused on different applications



144 Patents

131 invention & utility model patents
5 appearance patents
and 8 software copyrights

MPMC HYBRID®

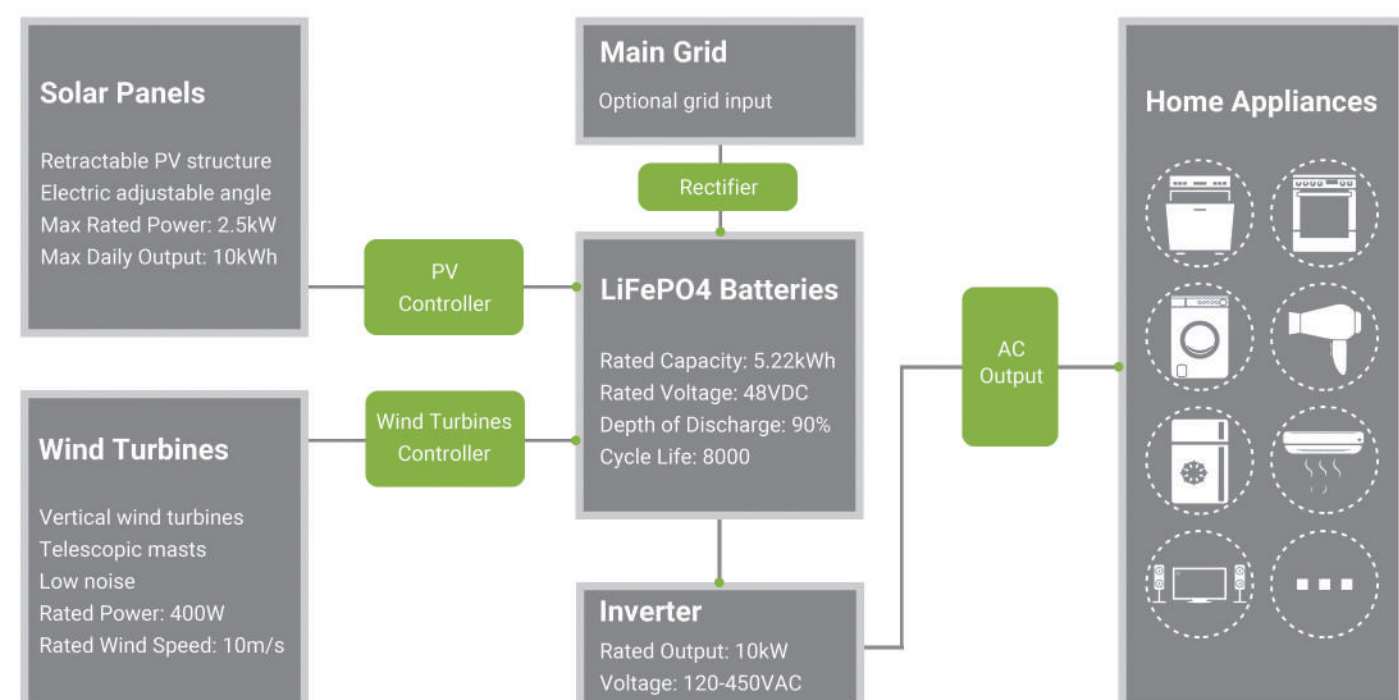
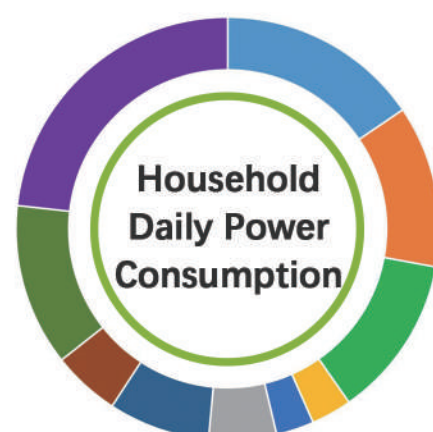
Hybrid Energy Solutions For Residential Independent Power

By optimizing the integration of solar power, wind power, and energy storage systems, MPMC Hybrid Energy Solutions WSB / SB Series has lower costs than conventional solar & batteries storage systems on the market. MPMC WSB / SB Series have the advantages of free installation, inattentive operation & maintenance, and greatly shortening the investment return period.

The system ensures power supply at night and in remote areas without main grid, saving at least 3,600 kWh of electricity every year. By expanding the capacity, other than saving on electric bills, excess electricity can also be sold into the grid.

Based on a typical use of household electrical appliances and the shift to more energy - saving appliances, taking account of actual service time of each electrical appliance, the estimated daily household power consumption is 9.58kWh and peak power is about 5940W. And system capacity can be expanded according to requirements.

- LED Lights 1.5kWh
- Television 1.2kWh
- PC/Tablet 1.2kWh
- Refrigerator 0.3kWh
- Range Hoods 0.28kWh
- Microwave 0.5kWh
- Hair Dryer 0.75kWh
- Washing Machine 0.5kWh
- Gas Boiler 1.2kWh
- Oven 2.25kWh



2021 Best Rechargeable Solar Battery Power Integration Project



Specification

* Customization available.

MODEL			WSB-3S	WSB-5S	WSB-8S	
LFP Battery Energy Storage System @50Hz/60Hz	LFP Battery	Battery Pack	Model	MF51100D	MF51100D	MF51100D
		Pack Qty.	kWh	5	5	5
			Min.	1	1	2
	Hybrid Inverter	HV Box	Max.	4	4	4
			Model	N/A	N/A	N/A
		kVA	3	5	8	
Phase	1	1	1			
Cooling System			Fan	Fan	Fan	
Solar Panel	Unit Rated Power (w)		550	550	550	
Total Power (w)		2750	2750	2750		
Wind Turbine	Unit Rated Power (w)		400	400	400	
Total Power (w)		400	400	400		
Dimensions	Loading (L*W*Hmm)		1750*1150*2550	1750*1150*2550	1750*1150*2550	
	Loading Qty.	20GP	6	6	6	
		40HC	12	12	12	
	Expand	L*W*H(mm)	3900*5400*7000	3900*5400*7000	3900*5400*7000	
	Net.weight (kG)		1210	1220	1230	
Trailer (Optional)			On-road			
Peak Shaving			Grid only	Grid only	Grid only	

MPMC HYBRID®

Hybrid Energy Solutions

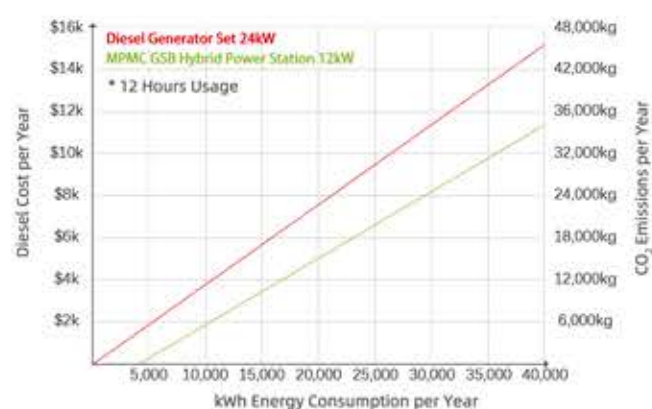
For Independent Power

MPMC Hybrid Power Station GSB® Series is a reliable resilient / prime energy solution mainly developed for independent power. To live green while ensuring stable off-grid power source, GSB® Series integrates diesel generator set (gas generator set for option), solar power, battery storage and hybrid solar inverter in one secure unit. It helps customers realizing solar self-consumption, rate arbitrage and more importantly, power independence.

For household daily power consumption ≤15kWh per day, by adopting MPMC GSB® Series Hybrid Power Station as a 12-hours-usage electricity generation source, it costs only **\$119.29 USD** on fuel per year, while it costs \$2312 USD on fuel per year for a 24kW diesel generator sets.

Annual Fuel Cost Saving
Up to
\$ 4,519 USD / Set

Annual Emission Saving
Up to
6,008 KG of CO₂ / Set



Key Features

1. Integrated installation, convenient storage and transportation.
2. High return on investment and quick return.
3. Simple operation and easy maintenance.
4. Power and capacity can be expanded, meet different user needs.
5. Excellent cooling system for heat dissipation.
6. Beautiful design, retractable structure, excellent anti-attenuation performance and high efficiency of MPMC Solar Powered System.
7. Visualized smart control system to monitor operation status.
8. Reliable Lithium Iron Phosphate Battery Storage to ensure compact structure with high power density and long lifespan.
9. Accept customer customization, suitable for various scenarios.



Specification

* Customization available.

MODEL		GSB-10	GSB-20	GSB-30	
LFP Battery Energy Storage System @50Hz/60Hz	Battery Pack	Model	MF51100D	MF51100D	MF51100H
		kWh	5	5	5
	Pack Qty.	Min.	2	4	8
		Max.	5	8	12
HV Box		N/A	N/A	1	
Hybrid Inverter	Model	MIV-10	MIV-10*2	MPC-30P+MDC-45K	
		kVA	10	20	30
	Phase	3	3	3	
Cooling System		Fan	Fan	Fan	
Generator Set @50Hz/60Hz	Rated Power (Prime@ISO 8528)	kW	7.2	10	16
		kVA	9	13	20
Engine (To Ref.)		403D-11G	403D-15G L	404D-22G L	
Emission		NA < 19KW	NA < 19KW	Stage IIIA	
Fuel Tank (L)		100	100	100	
Fuel Consumption (L/h@100%)		2.6	3.7	5.3	
Solar Panel	Unit Rated Power (W)		550	420	460
	Total Power (W)		2750	5040	10120
Dimensions	Loading (L*W*H(mm))		2950*1150*2200	3950*2280*2230	5700*2280*2230
	Loading Qty.	20GP	4	1	1
		40HC	8	3	2
	Expand L*W*H(mm)		2950*5400*3350	5100*6350*3150	8200*6350*3150
Net.weight (kg)		2800	3500	8100	
Trailer (Optional)		On-road	Available	N/A	
Peak Shaving		Grid only	Grid only	Grid only	

MPMC HYBRID®

Hybrid Energy Solutions

ALL-IN-ONE Hybrid Genset

MPMC Hybrid Power Station AIO® Series is an updated generation of GSB® Series. Compared with the hybrid generator set of GSB® Series, this ALL-IN-ONE hybrid genset consists of traditional diesel/gas generator set, solar panels, battery storage system as well as wind turbines. It helps us realizing solar self-consumption, rate arbitrage and more importantly, power independence with lower emissions and noise.

For daily power consumption ≤20kWh per day, by adopting MPMC AIO® Series Hybrid Power Station as a 12-hours-usage electricity generation source, it might reduce the cost on fuel up to \$4000 USD per year, compared with a 24kW diesel generator sets.

*The cost of the fuel is for reference only.



This integrated hybrid energy system is mainly developed for independent off-grid power solutions such as telecom base station, island power supply, etc.

Taking full advantage of MPMC surface process technology and experience of manufacturing super silent canopied generator set, the noise of AIO® Series genset is under 10 dBA while running in hybrid mode and just 65 dBA@7m when the standby diesel generator is running.

Besides, as an integrated unit, it adopts a compact design for shipping so that at least four units can be delivered by a standard 40'HC container at the same time.

Key Features

1. Integrated installation, convenient storage and transportation.
2. High return on investment and quick return.
3. Simple operation and easy maintenance.
4. Power and capacity can be expanded, meet different user needs.
5. Excellent cooling system for heat dissipation.
6. Beautiful design, retractable structure, excellent anti-attenuation performance and high efficiency of MPMC solar powered system.
7. Visualized smart control system to monitor operation status.
8. Reliable lithium iron phosphate battery storage to ensure compact structure with high power density and long lifespan.
9. Accept customer customization, suitable for various scenarios.



Specification

* Customization available.

MODEL		AIO-10	AIO-20	AIO-30	
LFP Battery Energy Storage System @50Hz/60Hz	Battery Pack	Model	MF51100D	MF51100D	MF51100H
		kWh	5	5	5
	Pack Qty.	Min.	2	4	8
		Max.	5	8	12
HV Box		N/A	N/A	1	
Hybrid Inverter	Model	MIV-10	MIV-10*2	MPC-30P+MDC-45K	
	kVA	10	20	30	
	Phase	3	3	3	
Cooling System		Fan	Fan	Fan	
Generator Set @50Hz/60Hz	Rated Power (Prime@ISO 8528)	kW	7.2	10	16
		kVA	9	13	20
	Engine (To Ref.)	403D-11G	403D-15G L	404D-22G L	
	Emission	NA < 19KW	NA < 19KW	Stage IIIA	
Fuel Tank (L)		100	100	100	
Fuel Consumption (L/h@100%)		2.6	3.7	5.3	
Solar Panel	Unit Rated Power (W)	550	420	460	
	Total Power (W)	2750	5040	10120	
Wind Turbine	Unit Rated Power (W)	400	400	400	
	Total Power (W)	800	800	800	
Dimensions	Loading (L*W*Hmm)		3400*1150*2200	3950*2280*2230	5900*2280*2230
		Loading Qty.	20GP	2	1
	Expand	40HC	6	3	2
		L*W*H(mm)	4400*5400*7000	5900*6350*7000	9000*6350*7000
Net.weight (kG)		3100	3800	8500	
Trailer (Optional)		On-road	Available	N/A	
Peak Shaving			Grid only	Grid only	Grid only

MPMC HYBRID®

Hybrid Energy Solutions For Silent & Green Power Solutions

MPMC hybrid generator set consists of a traditional generator set and a battery energy storage system. It integrates up-market battery system, battery management system and operation monitoring system, with excellent lithium-ion battery consistency ensures 8000 times of lifecycles for 8 consecutive years, meeting the most demanding applications.



Why we need battery storage system that costs much more than the traditional genset providing the same power?

First of all, the noise shall be much lower than when the diesel genset is running so that it is qualified as prime/emergency power supply in the community at night.

The prime power supply of the MPMC hybrid generator set is the battery storage system while the diesel/gas genset plays a role as the standby power. Since the cost of fuel is much higher than grid electricity, it is more suitable for rental business when using the battery storage system as prime power.



Specification

* Customization available.

MODEL			GB-10	GB-20	GB-30	
LFP Battery Energy Storage System @50Hz/60Hz	LFP Battery	Battery Pack	Model MF51100D	MF51100D	MF51100H	
		Pack Qty.	kWh	5	5	5
			Min.	2	4	8
	Hybrid Inverter	HV Box	Max.	5	8	12
			Model	N/A	N/A	1
		Cooling System	kVA	MIV-10	MIV-10*2	MPC-30P
Phase	3		3	3		
Generator Set @50Hz/60Hz	Rated Power (Prime@ISO 8528)		kW	7.2	10	16
			kVA	9	13	20
	Engine (To Ref.)			403D-11G	403D-15G L	404D-22G L
	Emission			NA < 19KW	NA < 19KW	Stage IIIA
	Fuel Tank (L)			100	100	100
	Fuel Consumption (L/h@100%)			2.6	3.7	5.3
Dimensions	Loading (L*W*Hmm)		2450*1150*2150	2450*1150*2150	2450*1150*2150	
	Loading Qty.	20GP	4	4	4	
		40HC	8	8	8	
	Net.weight (kG)			2000	2200	2250
Trailer (Optional)		On-road	Available	N/A		
Peak Shaving			Grid only	Grid only	Grid only	

MPMC HYBRID®

Battery Energy Storage System For Silent & Green Power Solutions

According to various power demands, this micro battery power station is more compact, efficient and flexible. The system capacity of this micro battery energy storage system is up to 150kWh. It also integrates up-market battery system, battery management system and operation monitoring system in this small unit, with excellent lithium-ion battery consistency ensures 8000 times of lifecycles for 8 consecutive years, meeting the most demanding applications.



Features

1. Quick installation;
2. Convenient storage and transportation;
3. Simple operation and easy maintenance;
4. Power and capacity can be expanded to meet different users' needs;
5. No-emission and low-noise;
6. Safe and reliable.



Specification

* Customization available.

Model	HBD-30-60	HBD-50-100	HBD-100-200	HBD-250-400	HBD-500-1000	HBD-1000-2500
Rated Power(AC Output)	30KW	50kW	90KW	250kW	500kW	1000kW
Rated Voltage/Phase	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Battery Cluster Voltage	614.4VDC	358.4VDC	358.4VDC	716.8VDC	716.8VDC	716.8VDC
Energy Capacity@25°C	61.44kWh	100.35kWh	200.7kWh	401.4kWh	1004kWh	2559kWh
Battery Model	MF51100	MF51280	MF51280	MF51280	MF44280	MF44280
Pack Capacity@25°C	5.12kWh	14.336kWh	14.336kWh	14.336kWh	12.544kWh	12.544kWh
Pack Qty.	12pcs	7pcs	14pcs	28pcs	80pcs	204pcs
Cycle Life@90DOD	6000	6000	6000	6000	6000	6000
PCS Brand	Sinexcel	Sinexcel	Sinexcel	Sinexcel	Sinexcel	Sinexcel
PCS Rated Power	30KW	30KW	30KW	250kW	500kW	500kW
Battery Voltage Range	150~750VDC	150~750VDC	150~750VDC	500~850VDC	600~900VDC	600~900VDC
PCS Qty.	1	2	3	1	1	2
Transformer	/	/	/	Yes	Yes	Yes
STS	Option	Option	Option	Option	Option	Option
Control System	EMS	EMS	EMS	EMS	EMS	EMS
Cooling System	DC Fan is Standard , HVAC for Option			HVAC is Standard		
Fire Extinguishing System	NA			Heptafluoropropane Gas Automatic Fire Extinguishing System		
Operating Temp.	-10~50°C					
Altitude	≤1000m					
Dimensions (L x W x H)	1300*900*2260mm	1300*1150*2260mm	1800*1150*2260mm	2950*2280*2500mm	20'HC	40'HC
The loading capacity	6units/20'GP 12units/40'GP	5units/20'GP 10units/40'GP	6units/40'HC	4units/40'HC	/	/
Weight	1.7T	2.1T	3.6T	9T	18T	33T

MPMC HYBRID®

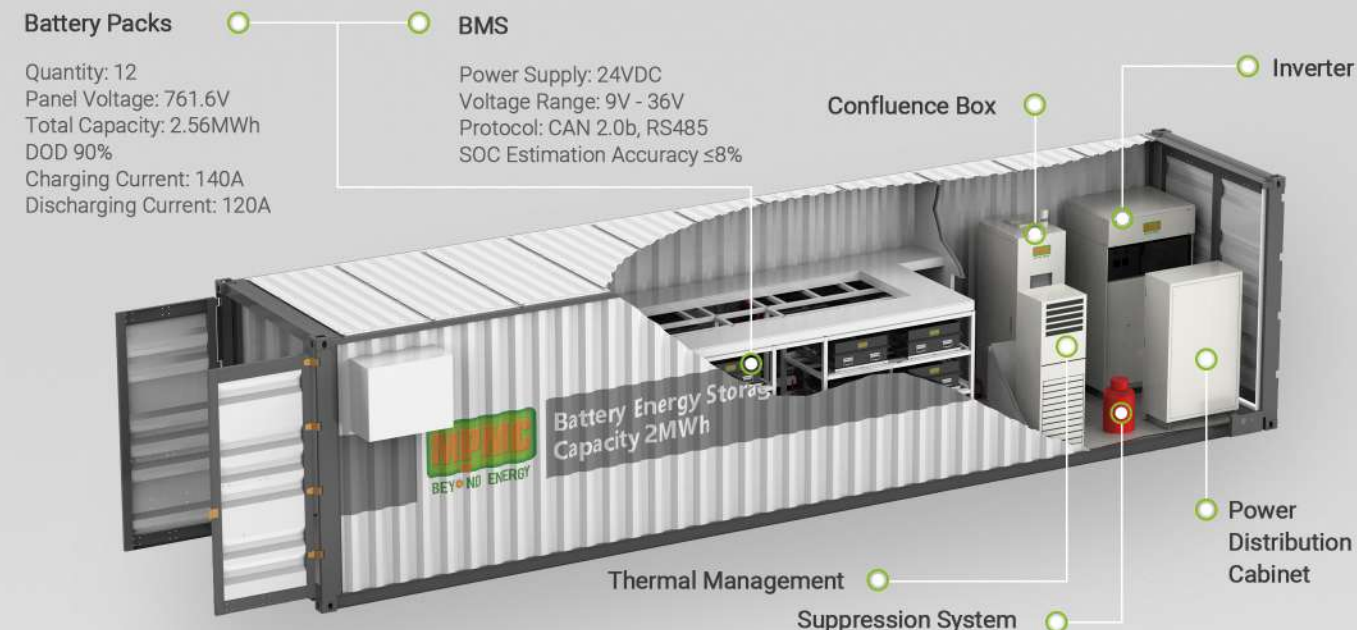
Energy Storage Solutions

For Industrial Applications

MPMC Containerized Battery Energy Storage System (BESS) allows fast installation and easy operation for its modular design.

Based on standard 40'HC Container, it copes with configuration from 2500 kWh energy storage power station (single container) to major power plant (combining multiple containers). It integrates up-market Battery System, Battery Management System and Operation Monitoring System, with excellent lithium-ion battery consistency ensures 8000 times of lifecycles for 8 consecutive years, meeting the most demanding applications.

- Solar/Wind/Hybrid power storage
- Peak-shaving
- On/Off-grid back-up power etc.



Key Features

1. Cycle life: 8000 times under charge/discharge @ 0.3C once per day @ DOD 80% for 8 consecutive years, total capacity of the battery system ≥ 80% of default initial capacity.
2. Excellent lithium-ion battery consistency.
3. Standard protocol to realize reliable external communication and scheduling.
4. Stable performance, high safety with gaseous fire suppression system.
5. Built-in air conditioner to manage in-box temperature. Exceptional heat dissipation.

Specification

* Customization available.

Model	HBD-30-60	HBD-50-100	HBD-100-200	HBD-250-400	HBD-500-1000	HBD-1000-2500
Rated Power(AC Output)	30KW	50kW	90kW	250kW	500kW	1000kW
Rated Voltage/Phase	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P	400Vac/3P
Frequency	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Battery Cluster Voltage	614.4VDC	358.4VDC	358.4VDC	716.8VDC	716.8VDC	716.8VDC
Energy Capacity@25°C	61.44kWh	100.35kWh	200.7kWh	401.4kWh	1004kWh	2559kWh
Battery Model	MF51100	MF51280	MF51280	MF51280	MF44280	MF44280
Pack Capacity@25°C	5.12kWh	14.336kWh	14.336kWh	14.336kWh	12.544kWh	12.544kWh
Pack Qty.	12pcs	7pcs	14pcs	28pcs	80pcs	204pcs
Cycle Life@90DOD	6000	6000	6000	6000	6000	6000
PCS Brand	Sinexcel	Sinexcel	Sinexcel	Sinexcel	Sinexcel	Sinexcel
PCS Rated Power	30KW	30kW	30kW	250kW	500kW	500kW
Battery Voltage Range	150~750VDC	150~750VDC	150~750VDC	500~850VDC	600~900VDC	600~900VDC
PCS Qty.	1	2	3	1	1	2
Transformer	/	/	/	Yes	Yes	Yes
STS	Option	Option	Option	Option	Option	Option
Control System	EMS	EMS	EMS	EMS	EMS	EMS
Cooling System	DC Fan is Standard , HVAC for Option			HVAC is Standard		
Fire Extinguishing System	NA			Heptafluoropropane Gas Automatic Fire Extinguishing System		
Operating Temp.	-10~50°C					
Altitude	≤1000m					
Dimensions (L x W x H)	1300*900*2260mm	1300*1150*2260mm	1800*1150*2260mm	2950*2280*2500mm	20'HC	40'HC
The loading capacity	6units/20'GP 12units/40'GP	5units/20'GP 10units/40'GP	6units/40'HC	4units/40'HC	/	/
Weight	1.7T	2.1T	3.6T	9T	18T	33T

Backup Power



LI-ION BATTERIES

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

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

Model:	MF51100	MF5160	MF44280	MF51100-1	MF25120
Rated Capacity	96Ah	60Ah	280Ah	100Ah	120Ah
Nominal Voltage	51.2V	51.2V	44.8V	51.2V	25.6V
Energy	4915.2Wh	3.07kWh	12.54kWh	5.12kWh	3072Wh
Voltage Range	43.2V-59V	43.2V-59V	35V-51.1V	43.2V-59V	18.4V-29.6V
Continuous Charging And Discharging Current	96A	60A	140A	100A	100A
Battery weight	56kg	40kg	105kg	55kg	37kg
Ambient Humidity	10% - 85%				
Altitude	≤2000m				
Dimension(L*W*H)	628*440*216mm	550*400*150mm	645*495*230mm	482*470*220mm	540*426*163mm
Communication Mode	RS485, CAN	RS485, CAN	isoSPI	RS485, CAN	
Cycle Life (0.5C 25±2°C 80%DOD)	>2000 times or >5 years		>4000 times or >8 years	>2000 times or >5 years	
BMS Function	Overcurrent, Overvoltage,				
	Overcharge, Over Discharge, High Temperature, Short Circuit,				
	SOC Estimation, Equalizing				Equalizing
IP Protection	IP20				IP43
Housing Material	Steel Plate				
	Charge 0-50°C				
	Discharge -20-60°C				
Operating Temperature	Storage -10°C~45°C				

MPMC HYBRID®

Mobile Hybrid Power Plant

Emergency Power Supply



40km/h

Max speed

80km

Max cruising range

60L

Fuel tank

PV/Li-ion

Integration



MPMC has developed an eco-friendly electric tricycle power plant for emergency power supply, widely used during unplanned downtime in various applications of Telecommunication, EV fast-charging, etc.

Small in size and short wheelbase make it flexible on the roads. It can traverse various complicated road sections and restore the power supply of the base stations in a short time.

Key Features

1. All stainless steel structure.
2. User-friendly input and output sockets.
3. Strong foldable support legs assist parking and prevent resonance.
4. Optional: Air conditioning system in the cab for a comfortable driving environment.
5. HenKel pre-treatment process of the canopy with sandblasting and AkzoNobel powder coating with a 3-years warranty.



Specification

* Customization available.

DIESEL SOLUTION	MTGP20S-1-SEA	MTGP25S-1-SEA	MTGP31S-1-SEA	MTGP38S-1-SEA
Rated Output	14.2kW	20kW	25kW	28kW
Voltage / Phase	400V / 3P	400V / 3P	400V / 3P	400V / 3P
Engine	403D-11G	404D-22G	404D-22G	404D-22G
Fuel Consumption @100% Load	6.3L/h	8.8L/h	11.1L/h	12.4L/h
Duration	9.5h	6.8h	5.4h	4.8h
Max Speed	40km/h	40km/h	40km/h	40km/h
Turning Radius	1640mm	1640mm	1640mm	1640mm
Dimensions (LxWxH)mm	3280x1380x1840	3280x1380x1840	3280x1380x1840	3280x1380x1840
Net Weight	1180kg / 2601.45lb	1280kg / 2821.92lb	1380kg / 3042.38lb	1380kg / 3042.38lb
Fuel Tank	60L	60L	60L	60L
Max Cruising Range	80km	80km	80km	80km

BATTERY SOLUTION	Battery Chemistry	Battery Capacity	Battery Module	PCS Output
	LiFePO4	30.7kWh	51.2V 100Ah	15kW
	Max Charge Current	Max Discharge Current	Cycle Life	Weight (with vehicle)
	50A	50A	8000	1200kg

MPMC HYBRID®

Solar Lighting Tower

HSL Hybrid Series



DC
LED
LIGHTING TOWER

**MAST
UP TO
7.5 M**

Specification

* Customization available.

Technical data for the GEL battery type

MODEL	HSL-1000A	HSL-1320A	HSL-1650A	HSL-1675A	HSL-2200A	HSL-2750A
Rated Power(LED Lamp)	100W*4pcs	150W*4pcs	200W*4pcs	100W*4pcs	150W*4pcs	200W*4pcs
PV Panel	3pcs*335W	3pcs*440W	3pcs*550W	5pcs*335W	5pcs*440W	5pcs*550W
Vertical Rotation Angle(PV Panel)	Fixed (Option)					
Battery Type	GEL					
Battery Module	2pcs*12V200AH	4pcs*12V150AH	4pcs*12V200AH	4pcs*12V150AH	6pcs*12V150AH	6pcs*12V200AH
Standby Generator (Option)	2000W / 220Vac 1P					
Solar Charger Model	TD2410TU	TD4615TU	TD4615TU	TD4615TU	TD4615TU*2pcs	TD4615TU*2pcs
Solar Charger	24V40A		24V60A		24V120A	24V120A
AC Charger (Option)	24V80A					
AC Output (Option)	2000W					
Solar SystemCharge Time	4h	4.5h	4.5h	3.5h	4h	4.5h
Standby Generator Charge Time	4h		6h	4h		6h
Lighting Discharge Time	8h		12h			
Loading Dimensions (LxWxHmm)	2400*1150*2500		2660*1250*2475	2400*1150*2500	2660*1150*2475	2980*1350*2520
Expanding Dimensions (LxWxHmm)	3400*2950*7200	3400*3080*7200	3500*3470*7200	3400*4950*7200	3500*5180*7200	3800*5400*7200
Net Weight	750kg	800kg	950kg	900kg	1100kg	1210kg
Loading Units of 40'HQ	10pcs		4pcs	10pcs	4pcs	

Technical data for the LFP battery type

MODEL	HSL-1000B	HSL-1320B	HSL-1650B	HSL-1675B	HSL-2200B	HSL-2750B
Rated Power (LED Lamp)	100W*4pcs	150W*4pcs	200W*4pcs	100W*4pcs	150W*4pcs	200W*4pcs
PV Panel	3pcs*335W	3pcs*440W	3pcs*550W	5pcs*335W	5pcs*440W	5pcs*550W
Vertical Rotation Angle (PV Panel)	22°~60°					
Battery Type	LFP					
Battery Module	2pcs*25.6V120AH	2pcs*25.6V120AH	3pcs*25.6V120AH	2pcs*25.6V120AH	3pcs*25.6V120AH	4pcs*25.6V120AH
Standby Generator	2000W / 220Vac 1P					
Solar Charger	24V60A					
AC Charger	24V60A					
AC Output	2000W					
Solar SystemCharge Time	4h	4.5h		3.5h	4h	4.5h
Standby Generator Charge Time	4h		6h	4h		6h
Lighting Discharge Time	8h		12h			
Loading Dimensions (LxWxHmm)	2400*1150*2500		2660*1250*2475	2400*1150*2500	2660*1150*2475	2980*1350*2520
Expanding Dimensions (LxWxHmm)	3400*2950*7200	3400*3080*7200	3500*3470*7200	3400*4950*7200	3500*5180*7200	3800*5400*7200
Net Weight	750kg	780kg	920kg	870kg	1050kg	1160kg
Loading Units of 40'HQ	10pcs	10pcs	4pcs	10pcs	4pcs	4pcs

Key Features

Powerful design, Safe and Reliable low-voltage operation system. These towable light towers can be used for any application where a diesel, gas or electric generator-powered light tower is needed.

1. Meets needs of off-grid & battery shortage environment.
2. High performance LED lighting.
3. Slided and folded solar panels, compact and green.
4. Solar panels are controlled by electric push rod.
5. Convenient mains input and gasoline generator input interfaces.
6. German brand AL-KO trailer.

Optional

- Electric winch, vertical telescopic mast.
 - Output plugs according to voltage as power supply to loads.
 - Standby gasoline generator charge the battery when in shortage.
 - Equipped with 4G router and web camera for surveillance & monitoring.
- Settable load model (a. 24 hours working b. working hours setting c. 8 hours working at night only)

Electric mast with high strength structure

Angle-adjustable, drawer structural



MPMC HYBRID®

Hybrid Lighting Tower

HBL Hybrid Series



DC
LED
LIGHTING TOWER

MAST
UP TO
9 M

Specification

* Customization available.

Model	MLT4KL-1400DHBL	MLT4KL-1000DHBL	MLT4KL-600DHBL	MLT4KL-400DHBL
Discharge Duration	9h	12h	8h	12h
Charge Duration	3h	4h	2h	3h
Pack Dimension	2234*1477*2557 mm			
Net Weight	1540kg	1600kg	1485kg	1440kg
Fuel Capacity	100L			
Control System	Automatic control (Lamp / Genset / battery)			
Lamp Power	4*350W	4*250W	4*150W	4*100W
Luminous Efficiency	160Lm/W	155Lm/W	150Lm/W	160Lm/W
Luminous Flux	56000Lm	38750Lm	22500Lm	16000Lm
Total Irradiation Area (Min.≥5lux,9m Mast)	3780m²	3159m²	2578m²	2078m²
Total Irradiation Area (Average≥20lux,9m Mast)	6400m²	4624m²	2352m²	2304m²
Battery Model	MF51300	MF51200	MF51200	MF51120
Nominal Capacity	15.36kWh	20.89kWh	10.44kWh	15.36kWh
Nominal Voltage	1*51.2VDC	2*51.2VDC	1*51.2VDC	
Engine Model	Z482-ET03 (3000rpm)		Z482-B-CHN-1 (1500/1800rpm)	
Alternator Model	Z482-EF02 (3600rpm)		Z482-D2-EF07e (1800rpm)	
Genset Rated Power	6KW	6KW	6KW	3KW
Genset Voltage Range	50~60VDC			
Mast Lifting Type	Vertical			
Lifting Height	9m			
Driving Type	Hydraulic			
Horizontal Rotation Angle	349deg.			
Vertical Rotation Angle	90deg.			
Trailer Loading Capacity	1600kg			
Alex Type	Single alex			
Tire Size	185R14			
Braking Mode	Parking hand break + Overrun device			
Running Speed	80km/h			

Key Features

1. High brightness and wide range lighting: 9m mast design, and 359 degree mast rotation and 90 degree Lamp rotation, 4*350w LED Lamp delivers 189000 lumens.
2. Strong chassis and mast structure, excellent performance in a variety of operating conditions. Coated with Akzo UV powder keeps the color for 3 years. AL-KO's high stability axle and vehicle design ensure the safety of operation.
3. Smart controls: Smartgen 404 control with manual / Auto operating mode. Remote controlled by phone & PC via Cloud monitor system.
4. Security system design: lighting tower level detection, parking brake and lamp pole lifting lock. Alarm system during lifting to ensure safety of user and equipment.



Efficient hydraulic lifting system

Mast can be rotated 359 degrees

Fully sealed base & fuel tank to prevent leakage. Larger capacity fuel tank for 3 weeks operation.

Obvious audible and visual alarm

On road trailer with driving and parking brake, speed up to 90 km/h



Battery

Genset

MPMC HYBRID®



PORTABLE POWER STATION

Lithium-ion Battery Generator

Outdoor Power Supply

Easy to pack and ready to keep you powered. Perfect for short weekend trips and charges up on the go from the solar panels. Advanced battery protection and sleek design make for a light weight, big power solution. With lithium-ion packs and increased shelf life means you are ready for any type of project.

Emergency Power

Never worry about a sudden power cut! The big capacity of MPMC portable power station is capable of your uninterrupted emergency power supply for your lights and mobile phones. And there is also a light on the portable power station that will always accompany you in the worst situation.

1080Wh
MAX CAPACITY

1000W
MAX POWER

1000
CYCLE TIME



Description

The Semookii lithium-ion battery portable power station integrates a battery energy storage system and a stable inverter. There are lots of ports such as AC outlets, a Quick Charge port, USB-A ports, DC ports and a car port in order to meet different power appliances including lights, laptop, drone, etc.



▲ Emergency Light



▲ Wireless Charging



Drone
9 Hours



Light
100 Hours



Electric blanket
12 Hours



Macbook
5 Charges



iPhone
50 Charges



TV
8.5 Hours

*The data above comes from the test on PPS-500

Specification

* Customization available.

Model	PPS-300	PPS-600	PPS-1500	PPS-2000
Max Output Power	300W	600W	1500W	2000W
Battery Capacity	288Wh	540Wh	1536Wh	1843Wh
Battery Type	Lithium-ion			
DC Charging Time	5H		7H	
AC Output	110V 60Hz/220V 50Hz			
Car Port	✓			
USB-A	18W			
Type-C	60W			
PV Charge	✓			
Cycle Time	1000			
Certifications	PSE / UL / PCC / CE / UN38.3 / MSDS			
Operating Temperature	-10°C~+40°C			
Warranty	12 months			

*The data above is for reference only

MPMC HYBRID[®]



RESIDENTIAL ENERGY STORAGE

Modular Battery Storage System

Store Energy

Backup Power

Save Money

Zero Emission

Against the steep rise in household electricity bills, Semookii HBC RESS makes a convincing case for the complementary nature between solar power and energy storage systems. By storing the excess electricity produced by solar panels, homeowners will increase solar self-consumption and load-shifting, lower electricity expenses by about 70%, and it's carbon-free! It includes self-developed LiFePO4 batteries with high-density cells and an EMS-integrated inverter. External PV power is recommended and AC generator is optional.

Explosion-proof LFP Module

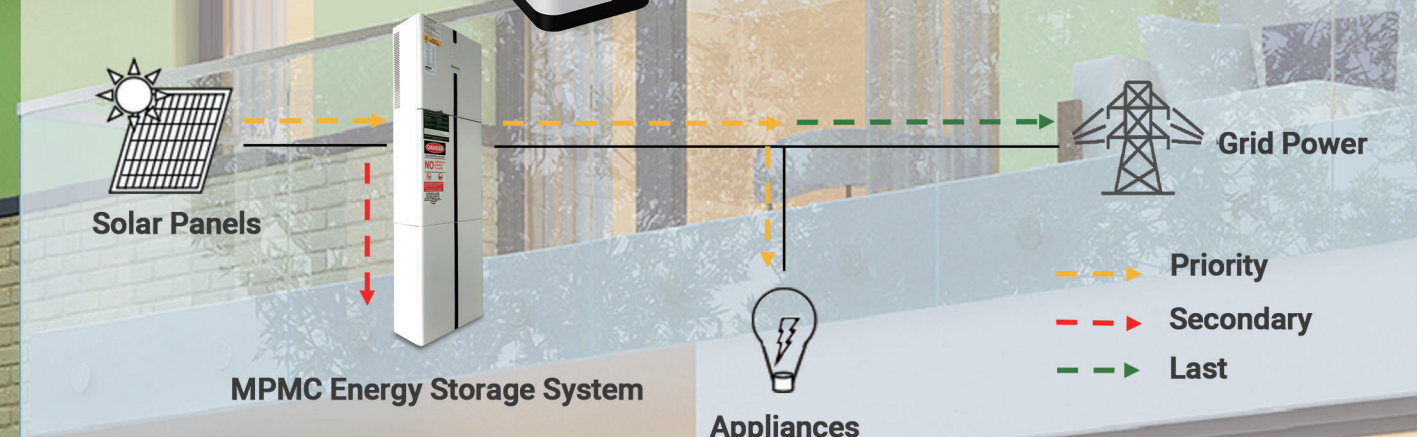
Semookii LiFePO4 battery modules are designed and manufactured in-house with built-in BMS, branded cells and high-temperature resistant materials to ensure product safety, complying with IEC 62619 and UN 38.3 certified.

Semookii HBC RESS is the first home battery storage product incorporating heat shields. The High-Temperature materials offer a state-of-the-art solution Max. 1100°C fireproof, high-temperature stability, low thermal conductivity, low heat storage, thermal shock resistance, and good dielectric strength.



Key Features

1. Install-and-go design, easy operation;
2. High efficiency with stable power supply;
3. Long battery life, providing uninterrupted power;
4. High-strength integrated structure;
5. Designated intelligent system and visualization to monitor operation status.



Specification

* Customization available.

Model	UHOO				EHOO				HBC		
	HBCA-3.6-5 HBCA-3.6-10	HBCA-4.6-5 HBCA-4.6-10	HBCA-5-5 HBCA-5-10	HBCA-6-5 HBCA-6-10	EHOO-H3.8-10 EHOO-H3.8-15	EHOO-H5.0-10 EHOO-H5.0-15	EHOO-H6.0-10 EHOO-H6.0-15	EHOO-H7.6-10 EHOO-H7.6-15	HBC-3-3	HBC-5-5	HBC-10-10
Max Output Power	3.6 kW	4.6 kW	5.0 kW	6.0 kW	3.8 kW	5.0 kW	6.0 kW	7.6 kW	3.0 kW	5.0 kW	10.0 kW
Battery Capacity	5.12 kWh 10.24 kWh				10.24 kWh 15.36 kWh 20.48 kWh				3.07 kWh 4.92 kWh 9.83 kWh		
Battery Type					LiFePO ₄						
Rated Voltage	204.8 V 409.6 V				102.4 V 153.6 V 204.8 V				51.2 V		
AC Output	230 V				240/120 V				230 V 230 V 400/230 V		
Ingress Rating	IP65				NEMA 4X				IP20		
Cycle Life	6500				6000				6000		
Temperature	-10 °C ~ +55 °C				-10 °C ~ +53 °C				-10 °C ~ +50 °C		
Altitude					≤3000 m						

*The data above is for reference only



MPMC HYBRID®

Hybrid Energy Solutions

Integrated, reliable and customized renewable energy



Solar & Battery & Wind



Battery & Diesel/Gas Genset



Solar & Battery & Diesel/Gas Genset



Solar & Battery & Wind & Diesel/Gas Genset



Genset & Battery



Solar & Battery & Genset



Battery & EV



Li-ion Battery



Industrial BESS



Industrial BESS

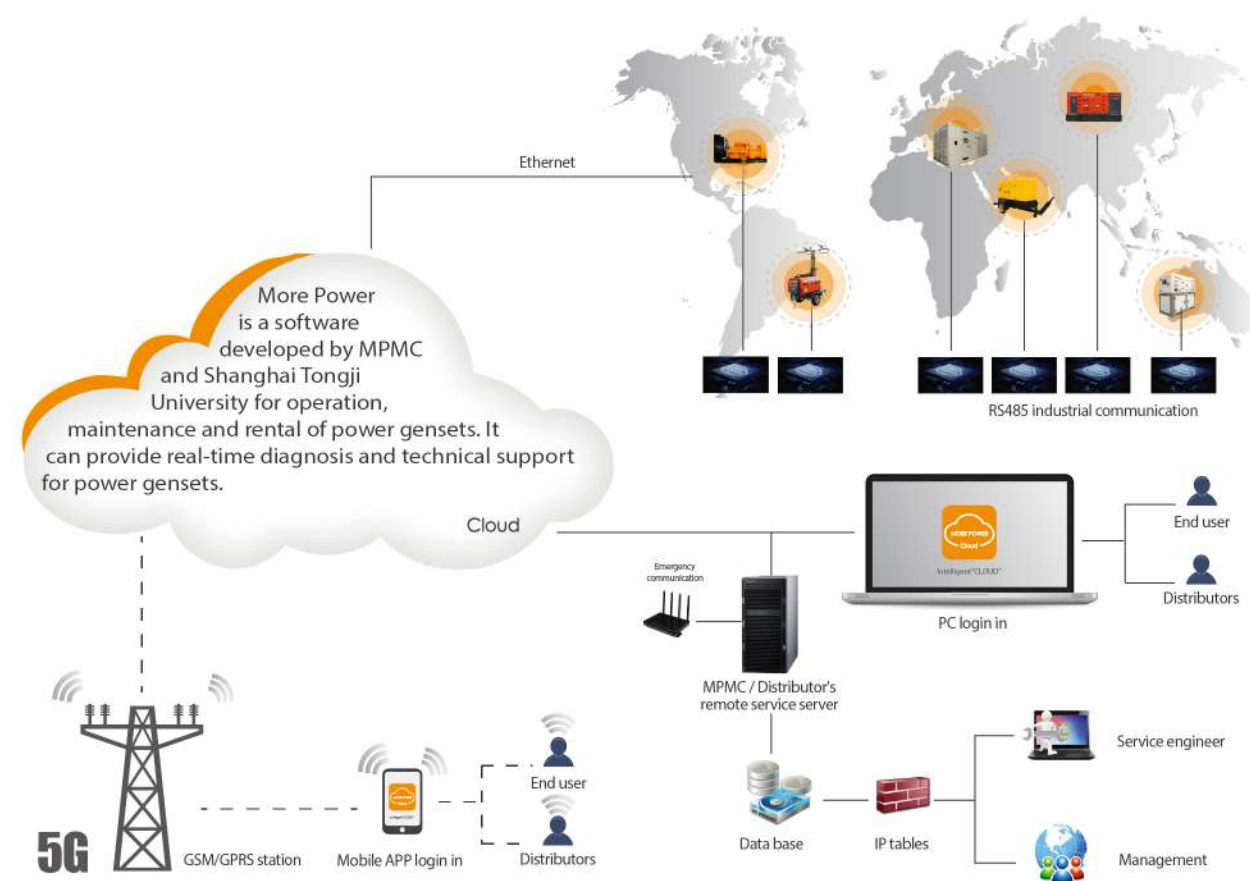


Portable Battery



Residential Battery

Internet Intelligent “More Power” Remote Service System



- Support all the international branded controllers
- RS485 industrial communication
- GSM/GPRS network communication
- GPS satellite system

MPMC Cooperated with Tongji University and developed “More Power” cloud system which focused on the power solution systems health management for operation, maintenance and rental.

More Power system includes global intelligent remote control, hierarchical management, multi-language instant messaging, after-sales service, spare parts online orders and other types of data collection. It supports PC and mobile APP.

More Power can provide real-time diagnosis and timely technical support for customers in different countries and different industries.