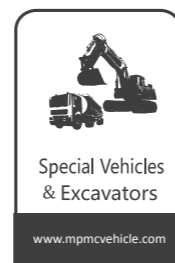
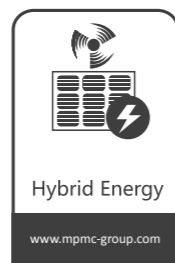
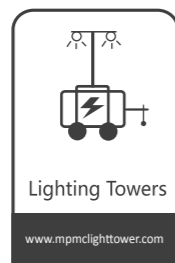
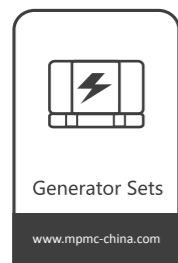




Security Code  
832266

## MPMC GROUP OF COMPANIES



[WWW.MPMC-GROUP.COM](http://WWW.MPMC-GROUP.COM)

**Headquarter | Factory | USA branch | UAE branch | UK branch**

Headquarter Add: 3rd Floor, Building 1, Powerlong City Plaza, No.2449 Jinhai Rd., Pudong, Shanghai 201209, China.  
Factory Add: No.1199 Fazhan Ave., Haimen Port New Area, Jiangsu 226156, China.

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Global expert of mobile hybrid energy solutions with worldwide service

MPMC Group of Companies

Security code : 832266

[www.mpmc-group.com](http://www.mpmc-group.com)



# Index

## 02: More About MPMC

03: Mission and Core value

05: We are MPMC

07: Strength

09: Chronicle

11: Organizational structure

13: MPMC Brand generator sets

17: Partners

## 19: More Power Products

19: Quality products

21: Certifications

23: Intelligent cloud

25: Finance lease

27: Smart cloud power solutions

## 29: More Cases More Trust

29: Marketing & Service

30: In different applications

31: Australian standard

33: Data center

35: Kampuchea

37: Container generator sets

39: Product extension

## 41: More Power More Confidence

41: Intelligent control

43: Future

45: Vision

46: Sustainability

So far, MPMC has had a strong competitive advantage and is undertaking the important responsibilities in various industries. Products have been recognized and trusted by customers in 115 countries around the world. Whether in Asia or Europe, Africa, the Americas; whether on the construction site with rumbling machine sound or in the crowded metropolis and in the vast desert, the products of MPMC can run reliably, stably, safely and economically and perform outstandingly. MPMC helps customers solve problems and is firmly committed to the economic development of all countries in the world. MPMC is always at your side.

# Mission and Core Value



## Mission

Global expert of mobile hybrid energy solutions with worldwide service.

## Core Value

Profession, Cooperation, Innovation, Responsibility

# More Power More Confidence

## We are MPMC

MPMC is the Global expert of mobile hybrid energy solutions with worldwide service and customizes smart generator sets, mobile lighting towers, hybrid energy micro-power station, special vehicle and construction machinery for global customers, focusing on innovation and development of products and services that are environmentally friendly, clean, efficient, safe and comfortable. MPMC was founded in 2008, with its headquarters located in Pudong, Shanghai, China and its products exported to more than 115 countries / regions around the world. In April 2015, MPMC became the first publicly listed company in diesel generator sets business in China. (Security code: 832266).

At present, MPMC Group of Companies focuses on the global market development and has established a global distributor network and after-sales service system. By the end of 2017, MPMC has set up a manufacturing base in Jiangsu and has established branches in Miami (USA) and Dubai (UAE), an office in the UK. MPMC will further expand the global market and expand its share in the global market through continuous innovation of industrial and energy solutions, so as to provide sustainable productivity for the global customers.

Compound annual growth rate  
is more than **25%**



# Strength

## 12000 Sets

annual production capacity

## 34000m<sup>2</sup>

### Authentication system



ISO9001 : 2015  
Quality system certified



ISO14001  
System certification



OHSAS18001  
System certification

MPMC owns the most advanced facilities, scientific process, perfect quality management system & leading production capacity.



# Chronicle



Since

## 2008

- Millennium Power Manufacturing Corp. was established in Pudong, Shanghai, China.

2009

- MPMC passed the ISO9001:2008 quality management system
- MPMC first hydraulic mobile lighting tower had a successful trial run and was sold to developed countries.

2010

- MPMC heavy duty silent diesel generator sets were successfully upgraded and entered into the high-end international market

2011

- MPMC 1st solar light tower was successfully developed and exported to USA in batches.

2012

- MPMC brought in PLM system to accelerate its Informatization construction.

2013

- MPMC 1st overseas branch-UAE branch was established in Jebel Ali Free Zone.

2014

- MPMC completed shareholding reform and established MPMC Powertech Corp.
- MPMC 2nd overseas branch —USA branch was established in Miami.

- MPMC Powertech Jiangsu Co.,Ltd. was officially built and put on production in Haimen Port New Area.

- MPMC products were sold to more than 100 countries and regions and successfully entered into the high-end international rental market of diesel generator sets.

- Since August 2016, MPMC' stock was changed from agreement transfer to market making transfer.

2015

- MPMC announced its public listing in the nationwide SEM stock transfer center, opening a new mode of capital operation. Security code: 832266, stock abbreviation: "MPMC"

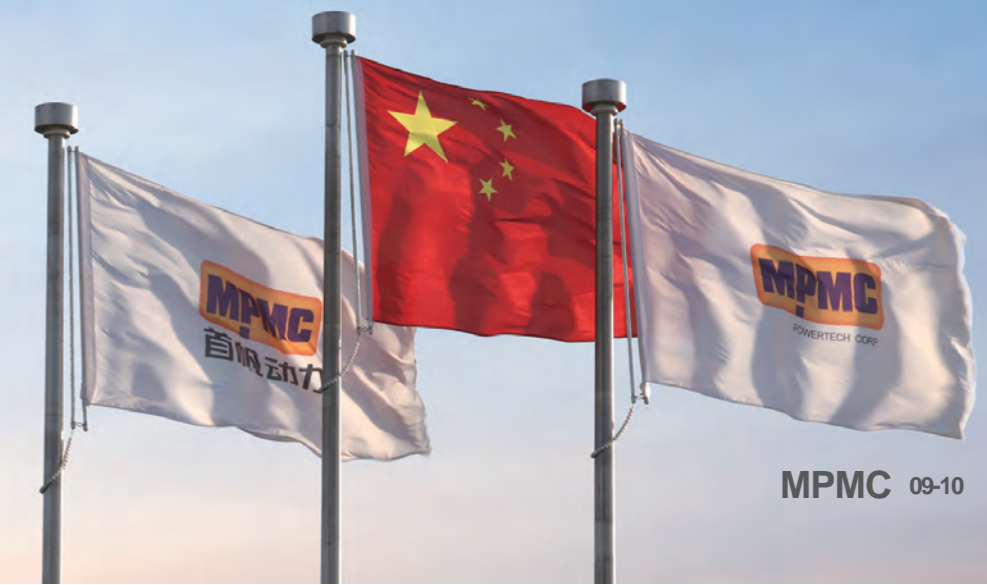
2016

- Established MPMC UK Office
- Established MPMC Wuxi Office

2017

- On 16th March 2017, the Greater China Marketing Center was opened in Beijing.

> 2018 10th Anniversary Celebration, 15 Times Growth!



# Innovation without borders, service around the world!



- ★ Head quarters in Shanghai
- ★ Production base in Jiangsu
- ★ Beijing office
- ★ Wuxi office

- ★ USA branch
- ★ UAE office
- ★ UK office
- ★ Panama Factory



# Partners

## Engine



## Alternator

## Control module



## Breaker





# None Emission Regulated Models

50Hz

Genset Model		Typical Genset Power Output				Main Components		
Open Type Model	Silent Type Model	Standby Power		Prime Power		Engine ( With Radiator )		Alternator
		kvA	kWe	kvA	kWe	Brand New	Engine Model	Stamford
M6.5-1	M6.5S-1	7	6	6.5	5.2	Kubota	D905-E2BG-CHN-1	SOL1-D1
M10-1	M10S-1	11	9	10	8	Kubota	D1105-E2BG-CHN-1	SOL1-H1
M15-1	M15S-1	16	13	15	12	Kubota	D1703-E2BG-CHN-1	SOL1-P1
M20-1	M20S-1	22	18	20	16	Kubota	V2203-E2BG-CHN-1	SOL1-G1
M25-1	M25S-1	28	22	25	20	DCEC	4B3.9-G1	SOL2-M1
M30-1	M30S-1	33	26	30	24	DCEC	4BT3.9-G1	SOL2-P1
M40-1	M40S-1	44	35	40	32	DCEC	4BT3.9-G1	S1L2-R1
M45-1	M45S-1	50	40	45	36	Perkins	1103A-33TG1	S1L2-R1
M55-1	M55S-1	61	48	55	44	DCEC	4BTA3.9-G2	S1L2-Y1
M60-1	M60S-1	66	53	60	48	Perkins	1103A-33TG2	S1L2-Y1
M75-1	M75S-1	83	66	75	60	DCEC	4BTA3.9-G11	UCI 224G
M100-1	M100S-1	110	88	100	80	DCEC	6BT5.9-G1	UCI 274C
M120-1	M120S-1	132	106	120	96	IVECO	NEF45TM3.S500	UCI 274D
M135-1	M135S-1	149	119	135	108	DCEC	6BTA5.9-G2	UCI 274E
M150-1	M150S-1	165	132	150	120	DCEC	6BTA5.9-G12	UCI 274G
M170-1	M170S-1	187	150	170	136	IVECO	NEF67TM4.S500	UCI 274G
M180-1	M180S-1	198	158	180	144	DCEC	6CTA8.3-G1	UCI 274G
M200-1	M200S-1	220	176	200	160	IVECO	NEF67TM7.S500	UCI 274H
M250-1	M250S-1	275	220	250	200	DCEC	6LTA8.9-G3	UCDI 274K
M270-1	M270S-1	297	238	270	216	DCEC	6LTA9.5-G3	S4L1S-D4
M320-1	M320S-1	352	282	320	256	DCEC	6LTA9.5-G1	S4L1S-E4
M350-1	M350S-1	385	308	350	280	CCEC	NTA855-G2A	S4L1S-E4
M400-1	M400S-1	440	352	400	320	IVECO	CURS0R13TE3A.S551	S4L1S-F4
M440-1	M440S-1	484	387	440	352	DCEC	62TAA13-G2	HCI 544C
M500-1	M500S-1	550	440	500	400	DCEC	QS213-G3	HCI 544C
M600-1	M600S-1	660	528	600	480	IVECO	CR16TE1W.S550	HCI 544E
M650-1	M650S-1	715	572	650	520	Perkins	2806A-E18TAG2	HCI 544F
M750-1	M750S-1	825	660	750	600	Perkins	4006-23TAG2A	LVI 634B
M800-1	M800S-1	880	704	800	640	Perkins	4006-23TAG3A	S6L1D-C4
M910-1	M910S-1	1001	801	910	728	CCEC	KTA38-G2A	S6L1D-D4
M1000-1	M1000S-1	1100	880	1000	800	Perkins	4008-30TAG2	S6L1D-E4
M1125-1	M1125S-1	1238	990	1125	900	Perkins	4008-30TAG3	S6L1D-F4
M1250-1	M1250S-1	1375	1100	1250	1000	Perkins	4012-46TAG0A	S6L1D-G4
M1350-1	M1350S-1	1485	1188	1350	1080	Perkins	4012-46TWG3A	S6L1D-H4
M1500-1	M1500S-1	1650	1320	1500	1200	Perkins	4012-46TAG2A	PI 734C
M1650-1	M1650S-1	1815	1452	1650	1320	Perkins	4012-46TAG3A	PI 734D
M1900-1	M1900S-1	2090	1672	1900	1520	Mitsubishi	S16R-PTA2	PI 734E
M2000-1	M2000S-1	2200	1760	2000	1600	Mitsubishi	S16R-PTAA2	PI 734F
M2250-1	M2250S-1	2475	1980	2250	1800	Mitsubishi	S16R2-PTAW	PI 734H
M2500-1	M2500S-1	2750	2200	2500	2000	MTU	20V4000G23	P80 LVSI804S
M2800-1	M2800S-1	3080	2464	2800	2240	MTU	20V4000G63	P80 LVSI804T
M3000-1	M3000S-1	3300	2640	3000	2400	MTU	20V4000G63L	P80 LVSI804W

## MPMC Brand Generator Sets

# Selection Guide

Notes:

- All power ratings above are rounded up and are for guidance only, please refer to the specific technical data sheet for accurate powers.
- The genset power output is based on assumed alternator efficiency and is for guidance only.
- kVA figures are calculated using a Typical Power Factor of 0.8.
- MPMC conditions of sale apply.
- For power range, if there are any differences between the Selection guide and technical data, please take technical data as the standard.

# 97 / 68 EC Regulated Models STAGE IIIA

# EPA Regulated Models TIER 3 / 4

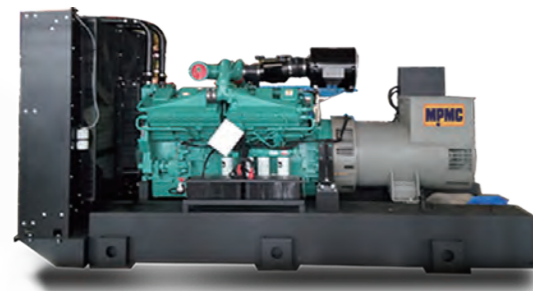
50Hz /400Vac

Genset Model		Typical Genset Power Output				Main Components			EU Emission Level
Open Type Model	Silent Type Model	Standby Power		Prime Power		Engine ( With Radiator )		Alternator	
		kVA	kWe	kVA	kWe	Brand New	Engine Model	Stamford	
MR20-1	MR20S-1	22	18	20	16	Perkins	404D-22G	SOL2-G1	STAGE IIIA
MR60-1	MR60S-1	66	53	60	48	Perkins	1104D-44TG2	S1L2-Y1	STAGE IIIA
MR80-1	MR80S-1	88	70	80	64	Perkins	1104D-E44TAG1	UCI 224G	STAGE IIIA
MR100-1	MR100S-1	110	88	100	80	Perkins	1104D-E44TAG2	UCI 274C	STAGE IIIA
MR142-1	MR142S-1	156	125	142	114	Perkins	1106D-E70TAG2	UCI 274E	STAGE IIIA
MR150-1	MR150S-1	165	132	150	120	Perkins	1106D-E70TAG3	UCI 274G	STAGE IIIA
MR180-1	MR180S-1	198	158	180	144	Perkins	1106D-E70TAG4	UCI 274G	STAGE IIIA
MR200-1	MR200S-1	220	176	200	160	Volvo	TAD753GE	UCI 274H	STAGE IIIA
MR250-1	MR250S-1	275	220	250	200	Volvo	TAD754GE	UCDI 274K	STAGE IIIA
MR275-1	MR275S-1	302	242	275	220	Scania	DC09 071A 02-02	S4L1D-D41	STAGE IIIA
MR300-1	MR300S-1	330	264	300	240	Scania	DC09 071A 02-03	S4L1D-D41	STAGE IIIA
MR325-1	MR325S-1	357	286	325	260	Scania	DC09 071A 02-04	S4L1D-E41	STAGE IIIA
MR360-1	MR360S-1	396	317	360	288	Scania	DC13 071A 02-01	S4L1D-E41	STAGE IIIA
MR410-1	MR410S-1	451	361	410	328	Scania	DC13 071A 02-02	S4L1D-F41	STAGE IIIA
MR500-1	MR500S-1	550	440	500	400	Perkins	2506D-E15TAG2	HCI 544C	STAGE IIIA
MR550-1	MR550S-1	605	484	550	440	Scania	DC16 071A 02-02	HCI 544D	STAGE IIIA
MR600-1	MR600S-1	660	528	600	480	Volvo	TWD1652GE	HCI 544E	STAGE IIIA
MR650-1	MR650S-1	715	572	650	520	Volvo	TWD1653GE	HCI 544F	STAGE IIIA
MR700-1	MR700S-1	770	616	700	560	Volvo	TWD1645GE	LVI 634B	STAGE IIIA

60Hz /440Vac

Genset Model		Typical Genset Power Output				Main Components			EPA Emission Level
Open Type Model	Silent Type Model	Standby Power		Prime Power		Engine ( With Radiator )		Alternator	
		kVA	kWe	kVA	kWe	Brand New	Engine Model	Stamford	
MR10-2	MR10S-2	13	10	11	9	Perkins	403D-11G	SOL1-H1	TIER 3
MR12-2	MR12S-2	14	12	13	10	Kubota	D1305-E4BG1-CHN-1	SOL1-L1	TIER 4
MR13-2	MR13S-2	17	13	15	12	Perkins	403D-15G	SOL1-P1	TIER 3
MR15-2	MR15S-2	19	15	17	14	Kubota	D1703-M-E3BG-CHN-1	SOL2-F1	TIER 3
MR20-2	MR20S-2	25	20	23	18	Kubota	V2203-M-E3BG-CHN-1	SOL2-M1	TIER 3
MR21-2	MR21S-2	26	21	24	19	Perkins	404D-22G	SOL2-M1	TIER 3
MR28-2	MR28S-2	34	28	31	25	Perkins	404D-22TG	SOL2-P1	TIER 3
MR30-2	MR30S-2	37	30	34	27	Perkins	404D-22TAG	SOL2-R1	TIER 3
MR40-2	MR40S-2	49	40	45	36	Kubota	V3600-T-E3BG-CHN-1	S1L2-Y1	TIER 3
MR55-2	MR55S-2	69	55	63	50	Perkins	1104D-44TG1	S1L2-Y1	TIER 3
MR65-2	MR65S-2	81	65	74	59	Perkins	1104D-E44TG1	UCI 224G	TIER 3
MR80-2	MR80S-2	100	80	91	73	Perkins	1104D-E44TAG1	UCI 224G	TIER 3
MR84-2	MR84S-2	106	84	96	77	Volvo	TAD550GE	UCI 224G	TIER 3
MR100-2	MR100S-2	125	100	114	91	Perkins	1204F-E44TTAG2	UCI 274C	TIER 4
MR101-2	MR101S-2	127	101	115	92	Volvo	TAD551GE	UCI 274C	TIER 3
MR116-2	MR116S-2	145	116	132	106	Volvo	TAD750GE	UCI 274D	TIER 3
MR149-2	MR149S-2	186	149	169	135	Perkins	1106D-E70TAG2	UCI 274E	TIER 3
MR150-2	MR150S-2	187	150	170	136	Volvo	TAD751GE	UCI 274E	TIER 3
MR168-2	MR168S-2	210	168	191	153	Perkins	1106D-E70TAG3	UCI 274G	TIER 3
MR176-2	MR176S-2	220	176	200	160	Perkins	1106D-E70TAG4	UCI 274G	TIER 3
MR180-2	MR180S-2	224	180	204	163	Volvo	TAD752GE	UCI 274G	TIER 3
MR202-2	MR202S-2	252	202	229	183	Volvo	TAD753GE	UCI 274H	TIER 3
MR208-2	MR208S-2	260	208	236	189	Scania	DC09 085A 01-02C	UCI 274H	TIER 4
MR220-2	MR220S-2	275	220	250	200	Scania	DC09 071A 02-01	UCI 274H	TIER 4
MR227-2	MR227S-2	284	227	258	206	Volvo	TAD754GE	UCDI 274J	TIER 3
MR240-2	MR240S-2	300	240	273	218	Scania	DC09 086A 01-03B	UCDI 274J	TIER 4
MR242-2	MR242S-2	303	242	275	220	Scania	DC09 071A 02-02	UCDI 274J	TIER 4
MR257-2	MR257S-2	321	257	292	234	Perkins	1506D-E88TAG3	UCDI 274K	TIER 3
MR264-2	MR264S-2	330	264	300	240	Scania	DC09 071A 02-03	S4L1D-C41	TIER 4
MR286-2	MR286S-2	358	286	325	260	Scania	DC09 071A 02-04	S4L1D-D41	TIER 4
MR294-2	MR294S-2	367	294	334	267	Volvo	TAD1351GE	S4L1D-D41	TIER 3
MR296-2	MR296S-2	370	296	336	269	Scania	DC13 085A 01-02A	S4L1D-D41	TIER 4
MR310-2	MR310S-2	387	310	352	282	Perkins	1506D-E88TAG5	S4L1D-D41	TIER 3
MR317-2	MR317S-2	396	317	360	288	Scania	DC13 071A 02-01	S4L1D-D41	TIER 4
MR328-2	MR328S-2	410	328	373	298	Scania	DC13 085A 01-02B	S4L1D-D41	TIER 4
MR352-2	MR352S-2	440	352	400	320	Perkins	2206D-E13TAG2	S4L1D-E41	TIER 3
MR356-2	MR356S-2	444	356	404	323	Volvo	TAD1355GE	S4L1D-E41	TIER 3
MR361-2	MR361S-2	451	361	410	328	Scania	DC13 071A 02-02	S4L1D-E41	TIER 4
MR384-2	MR384S-2	480	384	436	349	Scania	DC16 084A 01-01B	S4L1D-E41	TIER 4
MR385-2	MR385S-2	481	385	438	350	Perkins	2206D-E13TAG3	S4L1D-E41	TIER 3
MR400-2	MR400S-2	500	400	455	364	Scania	DC16 084A 01-01C	S4L1D-F41	TIER 4
MR440-2	MR440S-2	550	440	500	400	Perkins	2506D-E15TAG1	S4L1D-F41	TIER 3
MR454-2	MR454S-2	568	454	516	413	Volvo	TAD1650GE	HCI 544C	TIER 3
MR484-2	MR484S-2	605	484	550	440	Scania	DC16 071A 02-02	HCI 544C	TIER 4
MR510-2	MR510S-2	638	510	580	464	Volvo	TAD1651GE	HCI 544D	TIER 3
MR641-2	MR641S-2	801	641	728	582	Volvo	TAD1645GE	HCI 544F	TIER 3

MPMC Brand Generator Sets  
Open Type Model



MPMC Brand Generator Sets  
Silent Type Model



MPMC Brand of Generator Sets are available with the power range from 6.5Kva to 3000Kva, which are equipped with world famous engine and alternator brands to meet various customers' requirements.

# Generator Sets

Exploring valuable resources for generator sizing, specification, and training materials. Spec Sizer evaluates load types, collects data, and organizes it to help you select the generator set that's best for you.



## Open type generator sets 6 - 3000kVA

MPMC Diesel generator sets ranges from 6 -3000 kVA which offer outstanding cost performance, guaranteeing maximum efficiency and productivity. Key options further enhance the standard product offering versatility and flexibility throughout the range.



## Silent type generator sets 20 - 1000kVA

MPMC Silent Diesel Series models are the heavy-duty choice when low noise and low vibration are required. Their revolutionary design makes these generator sets are totally enclosed, including cooling, muffler and intake systems.



## Trailer type generator sets 13 - 550kVA

MPMC Trailer generator sets have the feature of high strength structural design, meets road traffic safety standards, the highest running speed is 65km/h, the height adjustable traction frame, the turning angle is small, high mobility, easy to apply to any traction workshop.



## Container type generator sets 625 - 3000kVA

MPMC Power Container Diesel Generator Set, 20 feet fully closed enclosure for the generator sets below 1250kVA , 40 feet for above 1250kVA, with CSC certification in accordance with International Container Safety Convention. The whole generator set can be directly used as standard shipping container, besides, the container generator set can be equipped with an automatic parallel system, automatic fuel supply system, remote monitoring and health cloud service system.

# Lighting Towers

MPMC has been focusing on the designing and producing of lighting towers since 2011, during the seven years development and efforts, we are now able to build a high quality product for multiple applications.



## Manual Type Lighting Towers

MPMC Manual type lighting tower is equipped with 4\*1000W metal halide lamps / 4\*360W LED lamps, The standardized design make power supply reliable and timely. Enduring the terrible environment with durability. Safe setup and operation with good user friendliness.



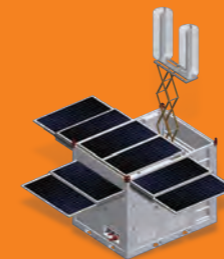
## Hydraulic Type Lighting Towers

MPMC Hydraulic type lighting tower is equipped with 4\*1000W metal halide lamps / 4\*360W LED lamps, hydraulic mast high up to 9m, Germany AL-KO road version of the trailer chassis, with road traffic safety standards, the maximum speed is 65km/h.



## SOLAR LED Lighting Towers

MPMC Solar lighting towers take the advantages of renewable solar energy and LED light systems on the road. Powerful design, Safe and reliable low-voltage operation system. These towable solar light towers can be used for any application where a diesel, gas or electric generator-powered light tower is needed.



## Hybrid Energy Micro Power Station

MPMC Chamber type micro power station is a device for energy conversion and energy storage consisting of solar photovoltaic power generation system, small wind power generation system, small energy storage system, and auxiliary equipment systems such as electric energy conversion devices and circuit connectors, and is convenient for customers. It is equipped with a solar photovoltaic pump system and a small handheld electric drilling equipment.

Any  
Where



# Face up to any Challenge

Any  
Condition



## Certificates

- CE
- TLC
- TÜV
- SGS
- Customs Union
- BV
- SON
- SASO
- UL



# Internet Intelligent "More Power" Remote Service System



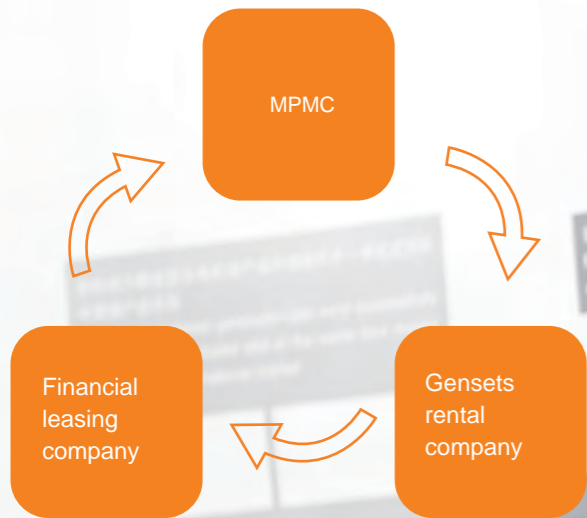
## Intelligent "CLOUD"

MPMC Cooperated with Tongji University and developed "More Power" cloud system which focused on the generator sets 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.

# Financial Leasing, Drive the Future!



Pay little, leverage more  
Using limited money can buy or rent  
MPMC power generators.



Lease instead of buying

In the process of upgrading Chinese manufacturing industry by financial support, the financial lease as a financial asset-based instruments, with the integration of finance, trade and services, can open up the link of capital and industry and be a useful link to combine the industry and finance.

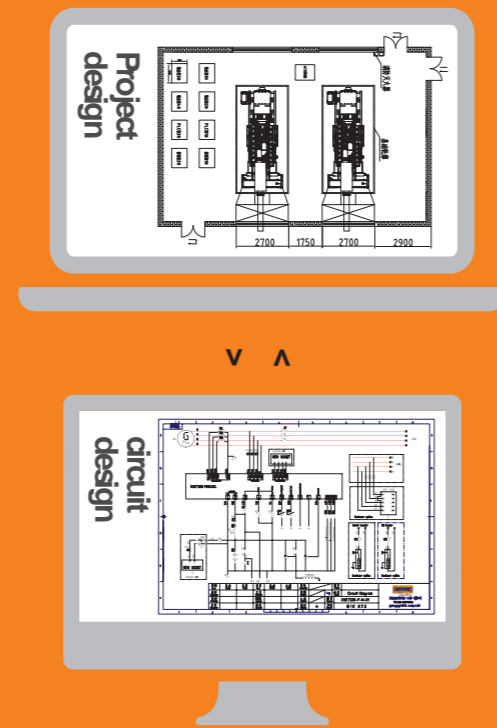
As a company specializing in power generation equipment, MPMC can provide professional guidance to help customers select the equipment that best meets their requirements, and provides financial leases to customers in order to solve their financial problem, for example, unable to obtain the timely loan from bank due to restrictions on the conditions or long approval time. Therefore, customers are easily use the power equipment but no need to pay a lot of money.

Customers will gradually repay the rent through the operating income, and ultimately have the flexibility to choose to buy to fully owned the device.

In such partnership, MPMC and customers share the risk and control responsibilities, to obtain a reasonable profit and achieve win-win cooperation.

# Smart Cloud Power Solutions

From product to service, from project design to finance, MPMC provides smart cloud power solutions for customers to solve their problems comprehensively.



## Site survey

## Equipment selection, project design

## "More Power" global service

## Financial lease

If customer needs, MPMC pre-sale engineer will survey on site, discuss their using requirements, understand customer's special needs and installation conditions.

According to customer's needs, choose the most suitable equipments, consider the using design the control system, installation scheme and maintenance plan.

"More Power" cloud system which connects the global dealer and end customer can provide timely diagnosis and technical support.

According to customer's financial situation, MPMC combined with third-party financial companies, to provide customers with a financial solution for sale/rent to solve the problem of customer's funding shortage.

# Global Marketing & Service Network



# In Different Applications

MPMC products in different fields have one common point that is persistent pursuit for "Quality first, Continuous innovation".



Power Plant



Outdoor Standby



Commercial Building



Communications



Mining And Oil Fields



Hospital



Military



Banking System



Leasing Industry



Data Center



Railway System

MPMC products are widely used in telecom, data center, banking, rental, military, railway, construction, harbor, exhibition etc...



# Lighting Towers of Australia Standard

## Customer profile

The customer is a large manufacturer of diesel generator and mobile lighting tower in Australia. Their main market is local municipal construction and mining in Australia.

The customer has very high requirements on the safety of the power supply, and the product must conform to the Australian standard.

## Customer demand

In the developed market of Australia, the supply requirements for city electricity are higher. The diesel generating sets that customer purchased is mainly used in some construction sites and mines. Because of the high cost of manpower and the need to ensure the compact time period, the stable power supply can save the cost for the end user.

In addition, the Australian market attaches great importance to the safety protection of operators. Therefore, every design detail of products must think of all possible operational hazards, otherwise, customer may need to take responsibility for the serious accident that happened in the future.

### Specific requirement:

1 Security  
customer request 48V DC operating system

2 A sturdy chassis  
that is easy to drag

3 Humanized  
operation panel

4 All electrical designs  
conform to Australia Standards

## Problem and challenge



### Reselection of materials

DC lighting tower is a brand new product. There are few factories in China or even in Australia market can manufacture this kind of lighting tower. We also designed and manufactured this product for the first time, which involves many problems of material re-matching.



### Safety and wind resistance of lamp mast lifting

Customers need LED lamps, the overall weight is heavy, how to ensure the safety and wind resistance of the lamp mast lifting.



### Solving heat dissipation

The voltage of the direct current lighting tower is low, the current is large, the whole diesel unit is easy to heat. Need to find out the appropriate way to solve the heat dissipation problem.



### Conforming to harsh Australia Standards

Every detail of the design needs to meet the stringent Australia standards.

## Our solution

### Scheme 1

In view of the fact that customers also have manufacturing experience, we are actively communicating with customers, providing our design plan in time, and constantly discussing and improving it.

### Scheme 2

We set up a project team specially, followed by experienced engineers to track every step of design and improvement, and finally confirm the design plan with the customer in the shortest time.

## Project value and customer evaluation

### Project value

As the direct current lighting tower is also a new product in Australia, customers have successfully provided the products that meet the requirements in the municipal engineering which have achieved good publicity.

### Customer evaluation

In the implementation of the project, we communicated with the outside and inside. The professional design ability provided the most satisfactory design draft to the customer and the product matching information needed by the customer which got the approval of the customer.

The overall evaluation of our customers is: *Professional and information feedback is timely and effective.*



# Data Center in Shanghai

## Customer profile

A data information company in Shanghai is a high-tech enterprise focusing on research and development of cloud computing, and is also one of the largest Telecom Internet infrastructure providers in China. The company mainly provides independent intellectual property based on cloud computing services for individuals and units. Having a professional and experienced maintenance and research and development team, with strong cloud computing research foundation. The main business of the company includes cloud computing services, Internet data center services, Internet content distribution / acceleration services, resident network and a full range of value-added services and complete industry solutions.

## Customer demand

Large and relatively important computer rooms are usually powered by two way power supply (municipal power and diesel generating set) plus UPS power supply to ensure that the core components do not break down, such as servers and other important equipment and the computer system can run normally. The server not only supports the key business of the enterprise, but also plays a key role in the process of business operation. In order to ensure the continuity of the business, the demand for the power supply system is more stringent. Power failure will make the data center face the risk of data loss.

1 Steady, reliable, uninterrupted power supply

2 Considering the influence of harmonics on the power grid, the generator is equipped with PMG and harmonic detection device.

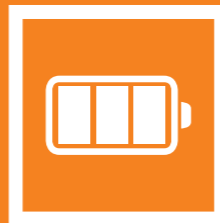
3 The unit can be monitored remotely by wired / wireless mode.

4 Fast starting and carrying

## Problem and challenge



**Uninterrupted switching**  
Uninterrupted switching to the original UPS (the original UPS system is 1H).



**Large quantity of electricity**  
The entire data center has a large capacity (numbers of equipment need a large amount of electricity), and the three units need a sudden increase in load after a steady operation, which is about 50% of the entire capacity, which is a test of the performance of the diesel genset.



**Wired / wireless monitoring methods**  
At the same time, the wired/ wireless monitoring mode is realized, and the security of data transmission should be considered.



**Noise and exhaust emissions control**  
The location of the project is a residential area, and the location of the installation is limited, but the problem of noise and exhaust emissions needs to be solved.



## Our solution

### Scheme 1

Considering the strict requirements of the data center for the power supply system, we have selected the Cummins engine with strong power and strong start-up capability and the Stamford alternator with stable electrical performance, and installed permanent magnet machines to ensure that when the sudden load exceeds 50%, the machine can start the power supply as soon as possible.

### Scheme 2

According to the customer's installation conditions, we designed a reasonable layout of the machine room to solve the problems of noise reduction and emission reduction.



## Project value and customer evaluation

### Project value

The successful implementation of the project provides a safe and secure backup power support for the data center of the customer's expansion. It ensures the data security of the customer data center and makes it faster to provide high-quality service for the users.

### Customer evaluation

In the early stage of the project, we conducted many deep communications with our customers and provided corresponding solutions. Considering the compatibility of the whole system, we have digested and supplemented the whole scheme, and these details are reflected in the plan which is approved by the customers.

# Kampuchea Southeast Asia

## Customer profile

The customer is a professional distributor of Kampuchea diesel generator from 2004, has 10 years of experience in sales, mainly for Kampuchea, Vietnam, Laos, Burma and other Southeast Asian industrial and mining enterprises sales and rental diesel generator, also provide spare parts, maintenance and other related services.



## Customer demand

In many areas of South East Asian perennial power supply is not stable, in the peak period is often due to unstable power supply short time power outages, and industrial customers for factories, banks, mining, once a day, will be faced with the production line of product claims, unable to solve customer's service issues. Therefore, the customer needs to use a generator set as a standby power supply, and some large enterprises need multiple units to run in parallel.

### specific requirements:

1 It can be started at any time and provides 3-5 hours of power supply.

2 The reliability of the power supply, while taking into account the future construction of the casino.

## Problem and challenge



### Rain proof

The installation position of the unit is not consistent with the plan, moving from the standard room to the outdoor installation. Therefore, it is necessary to do a good job of rain prevention according to the situation.



### Loss of original circuit file

Customers originally purchased from Singapore because of the use of time too long, the original document information is missing, can not check the circuit drawings.



### The old unit and the new unit can't achieve parallel operation

The control system of the old unit is relatively old, the stability, the speed regulation and voltage regulation characteristics are poor, and it is impossible to achieve parallel operation with the new unit.



### Poor construction environment

The construction and maintenance of the client's machine room are relatively poor, and the oil pollution of the machine itself is serious, and the installation of the machine is difficult.

## Our solution

### Scheme 1

Our engineers take full account of the parallel stability of the new and old units, and suggest keeping the original parallel system.

### Scheme 2

A new set of parallel systems is redesigned to operate at the same time with the old system, and the free switching of a variety of power supply options is realized.

## Project value and customer evaluation

### Project value

Due to the large stock of old and second-hand units in Southeast Asian market, the successful transformation of the project has opened up a huge market for dealers and customers.

### Customer evaluation

The client was delivered a week before the end user date and was highly evaluated by the end user. The main reason why customers choose MPMC is that we can dispatch engineers to solve the difficult problems on the spot. And MPMC has not expected that the first cooperation is the excellent on-site technical service to obtain the customer's affirmation. Customers are expected to have more opportunities to cooperate with each other in the future.



# Container Generator Sets

## Customer profile

In August 2017, MPMCpower provided 1\*1250kVA (MPS1100-SR-2) container units to Saudi customers, and provided them with retro-fitted intake, heat dissipation, super quiet design and other services. Customers buy the Perkins container unit through MPMC and then provide the container unit to the Saudi military Riyadh port as a standby power supply.

Our client is a professional diesel generator distributor in Saudi Arabia, Riyadh, founded in 1974. Now, it has 23 years of sales experience, mainly serving the government, military, power companies and telecommunications projects. At the same time, it is also a local strengthening and experienced company of unit maintenance and accessories sales.

## Customer demand

Saudi Arabia has a high temperature, sand, and other environmental problems. The customer requires the unit have the features of high-temperature resistance, good heat dissipation and high noise level. According to the analysis of the diesel power generation market in the tropics, due to the relatively remote customer use scenarios, high temperature, sand, and other harsh environmental issues have imposed higher requirements on the using conditions of the power plant, and the ordinary straight-line diesel generators cannot fully meet customer's special requirements. Therefore, MPMC developed top-level container generator sets for this customers.

specific requirement:

- 1 Heat control to meet the conditions of about 65 degrees centigrade
- 2 Container paint is suitable for long term exposure to the high temperature desert
- 3 The unit can reach fast voltage switching
- 4 60 days for the time of delivery

## Problem and challenge



The noise of the unit is very difficult to control



The engine is a little slow in delivery



Bad heat treatment

## Our solution

The famous brand of high power project configuration engine and generator, remote type water radiator, the top row of the box body exhaust fan, large capacity built-in fuel tank, muffler and residential type built-in high insulation type ceramic insulation sleeve, inlet plate filter and filter bag, high standard custom container etc.

The core technology of this project mainly is by far the top row type water tank, the engine cylinder body heat transmission through the pipeline to the top row of the tank about two cooling core, then the cold air outside the container is pumped into the chamber through the water tank of high power fan, which can directly use the external cold air cooling engine, cold the air outside the container inside the box body temperature lower than 10 degrees, which greatly improves the high temperature turbine performance.

In addition, the radiation high temperature of the engine chamber is pumped out through the axial fan of the 1.5KW, and the two groups of air outlets do not interfere with the non-flow. The air inlet of the box body is equipped with a plate type filter net and a filter bag, which separate the external wind sand from the filter component, and greatly improve the wind erosion resistance of the generator set. The type of residential built muffler arranged in the upper part of the engine mounting surface, sitting directly on the top of the box, generator without disassembling the muffler system can direct shipping or trucks in the transport process, which greatly improves the security of generator, provides the response rate of the emergency power supply. The built-in fuel tank, can guarantee the generator with 24 hours of operation, its supporting tubing are high quality extruded tubing, tight sealing and convenient installation.



## Project value and customer evaluation

### Project value

The project is to declare a utility model: a container diesel generator exhaust rainproof cover device, the utility model is a new type of container for diesel generator exhaust rainproof cover structure for large generator provides a vertical smoke transport without removing and smoke resistance smaller scheme. The weight and slope structure can ensure the automatic flexible open exhaust. The scheme using adjustable opening angle can guarantee the closure of the smooth, the left and right cover board lap natural, close when the effective rain prevention.

### Customer evaluation

The whole process of project implementation, also encountered the problem of long delivery time, the solution is through multi partner coordination, MPMC factories to step up production, it is also a breakthrough in the process of shipping for multiple levels, with the fastest speed to send the goods to the customers, and the customer has cooperated for many years, finally solved the problem of delivery.

The final customer evaluation of us: *beyond the customer's expectation, the time of delivery, the quality is very good, the noise is very low, heat is very good.*



# Product Extension

## Hybrid Energy Micro Power Station



## Special Vehicles & Excavators



# Intelligent Control

The first private cloud intelligent remote system is a mobile App developed mainly for the post market of generator industry. Through the developing stream of Internet of Things and mobile App, it aims to develop international one-stop solution of after-sales service.

Due to the lack of a cloud monitoring professional system in the whole generator operation market, the first private cloud intelligent remote system should be the only independent third party service unit now.

The first private cloud intelligent remote system, through real-time multi language text and speech translation of chat platform, solve the regional industry market and international language real-time communication problems, make the enterprise to enhance the overall efficiency of the service.

# Future

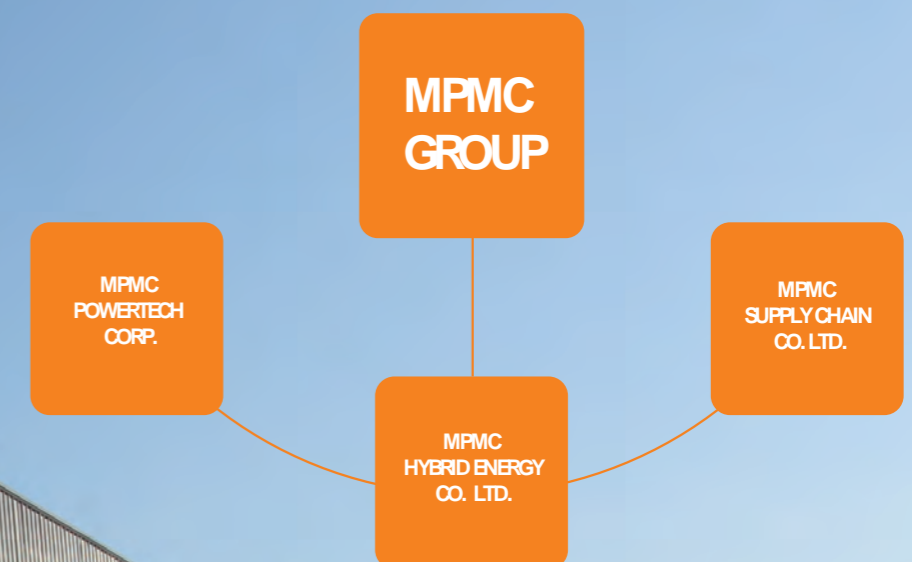
## More cases more trust

In the February 2018, the grand opening ceremony of two new companies, MPMC GREEN TECH CO. LTD. and MPMC SUPPLY CHAIN CO.LTD., was held successfully.

MPMC HYBRID ENERGY CO. LTD. is committed to research and produce micro wind power generation system and hybrid energy micro-power station. As an important transformation product of the group's future development, it will take an important responsibility in the future development of MPMC Group of Companies.

MPMC SUPPLY CHAIN CO.LTD. will integrate the resources of the supply chain process in MPMC so it will assume a more important task and become a nova that can't be ignored in 2018.

MPMC will thus form the group development mode, each subsidiary of mutual support, complementary advantages, each one has his good points, MPMC will certainly achieve great dreams.





**For Brighter  
Safer and More  
Beautiful life!**

## Sustainability



To customers

Pursuit of the optimization for product details, user-friendly operation, energy saving and environment-friendly is through our design, producing, marketing and service.



To employees

Try our best to provide a good platform for employees to develop, and respect their interests.



To shareholders

Ensure the enterprises will develop healthily and continuously.



To the society

As a responsible company, MPMC is dedicated to contributing to the community and building a better world.