



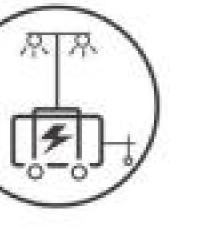


MPMC GROUP OF COMPANIES



Generator Sets











Cold Chain Tech

WWW.MPMC-GROUP.COM

















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Generator Sets for ISO Reefer Containers



World Leading Cloud Power and Smart Energy Provider of Comprehensive Solutions



120 Countries

Products are exported

to 120 countries



Types Three categories of 53 types of



12000 Sets Annual production capacity



50 Specialists

50 solution experts focused on

different applications



77 Patents

3 invention patents and 74 utility model patents

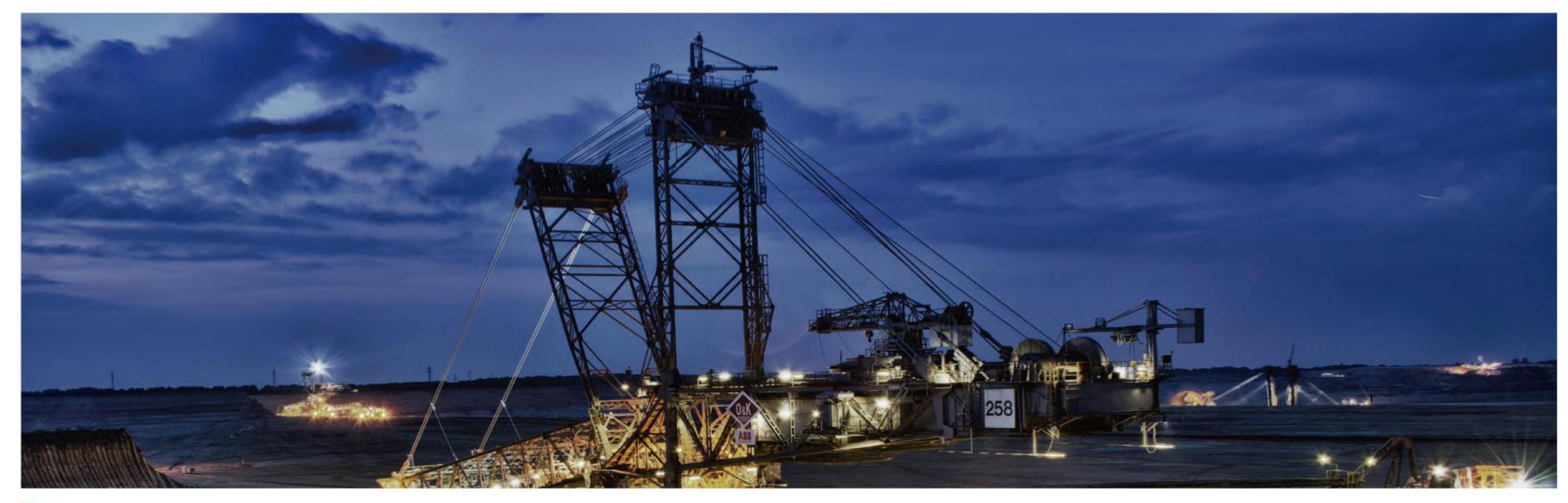
With more reliable, more intelligent and more considerate service, MPMC provides "More Power, More Confidence" to global customers.

MPMC POWERTECH CORP. (hereafter MPMC) is an international high-tech enterprise established in the Year 2008. As a world-class smart cloud hybrid energy solution provider, MPMC manufactures and distributes intelligent generator sets, mobile lighting towers, hybrid micro-power stations and other smart cloud energy management solutions worldwide.

Collaborated with Shanghai CIMC Generating Set Co., Ltd., a specialist in designing generator sets for cold-chain transportation, MPMC Cold Chain Technology has devoted itself to developing and manufacturing diesel generator sets for ISO reefer containers applying to various scenarios of over-the-road and railway transportation.

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, Panama, UK, UAE, Netherlands and China. Up to now, distributors of MPMC have covered a wide range of countries & regions in the Americas, Europe, Oceania, Africa, Middle East and Southeast Asia.

Since the Year 2010, MPMC has been qualified by Quality system ISO9001, environmental management system ISO14001 and health & safety management system OHSAS18001. MPMC products have been qualified by the European Union (CE) certification and Tyre certification (TLC).



Partners



















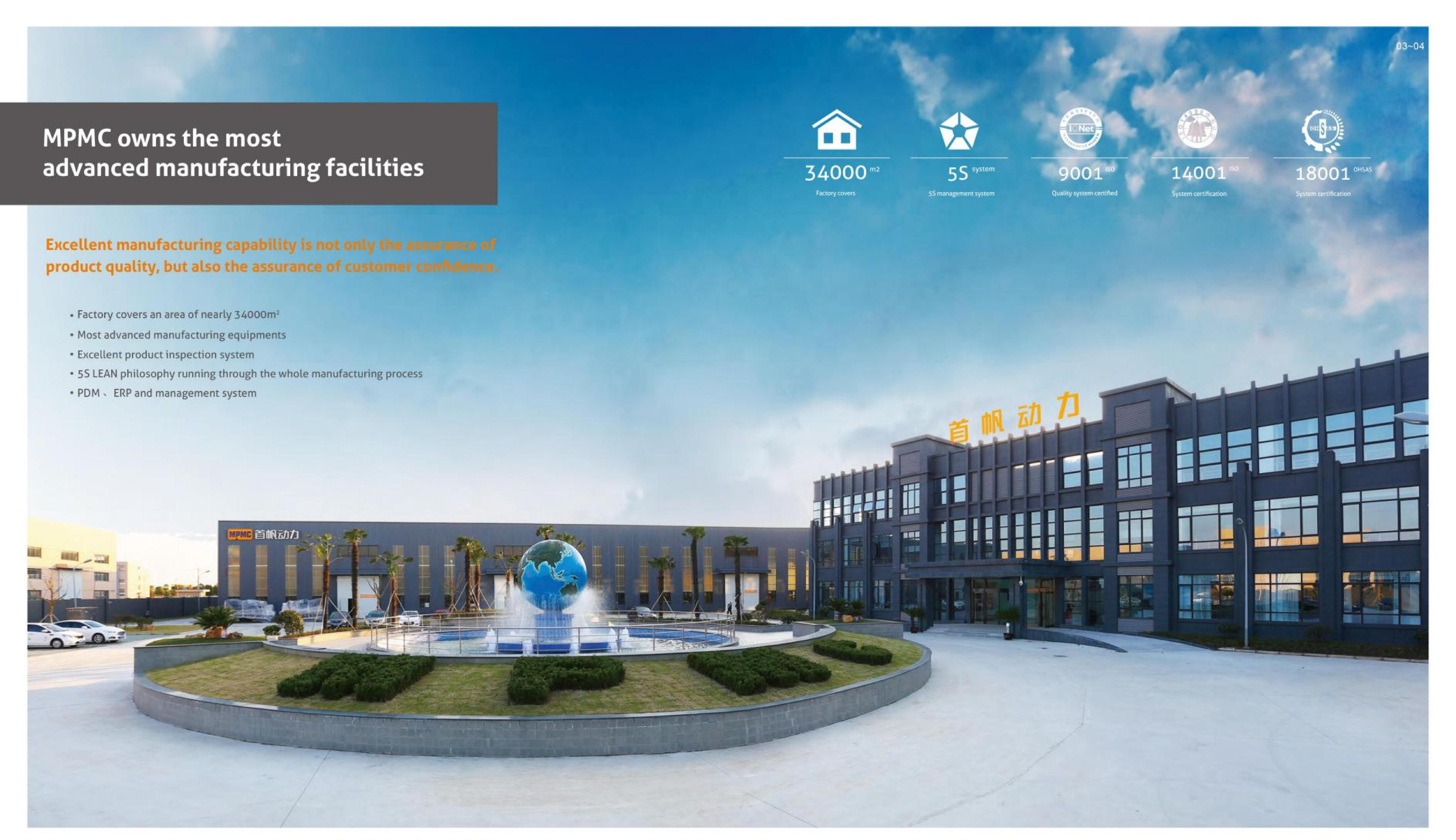




























Automatic powder coating lines

CNC laser cutting machine



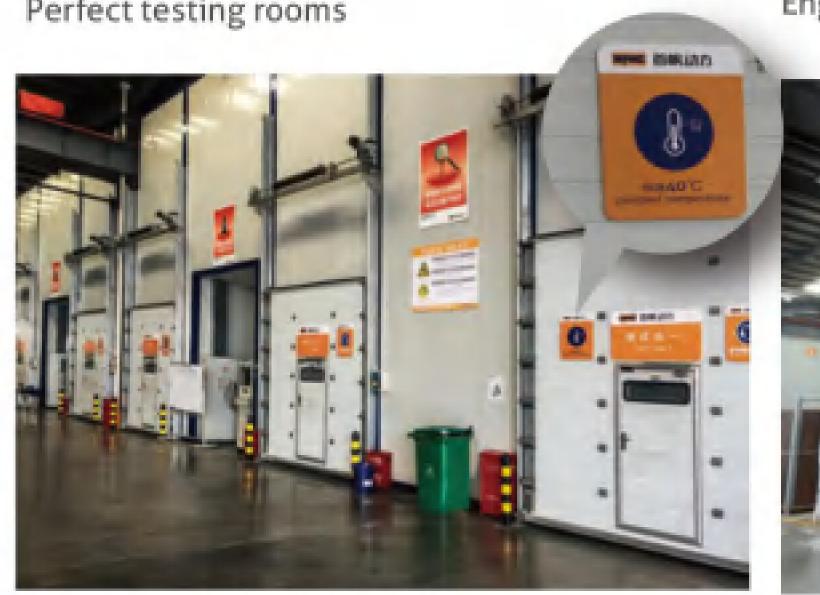
Precision cutting by CNC



CNC bending machine



Perfect testing rooms



Engine storage area (upto 600 stocks)



MPMC Generator Sets for ISO Reefer Container



The high-strength canopy and anti-lean installation of MPMC generator sets for ISO reefer container highlight reliability and stability of power supply for thermal containers on over-the-road transportation.

Advantages

- Ensuring powerful starting performance and continuous steady power supply to refrigerated containers.
- User-friendly design. Easy to install/un-installed. Convenient operation and maintenance.
- Weather resistance
- Collision-resistant as the generator set is completely welded steel structural assembly designed to take ≥5g's acceleration forces in all directions.
- Fuel duration: 10+ days.
- Cycle run system to lower fuel consumption by 30%-40%
- Cloud monitoring system for remote monitoring, diagnose and maintenance.
- 8 Fire-proof system.
- Emission regulation: U.S. Tier 3 / EU Stage 3 / China Off-Road Stage 3 etc.











Main congfiguration

Engine Manufacturer	PERKINS	KUBOTA	LD	PERKINS	
Engine Type	404D-22G	V2203-E2BG	4L22BD-RF1	403F-15TG	
Exhaust emission level	U.S. EPA Tier 3	EU Stage 3 and China Off Road Stage 3	NA	U.S. EPA Tier 4 Final	
Generator Manufacturer		SHANGHAI CIMC GENER	ATING SET CO., LTD		
Generator Type	RF-15-CIMC-FS Permanent magnet excitation				
Radiator tank	Aluminium plate structure radiator, low water level alarm with supplementary water tank				
Air cleaner	Heavy-duty oil bath filter air cleaner				
Starting battery	12V-90AH, 730CCA, maintenance-free battery (M10 Bolt electrode joint)				
	Parameters with EG-1 control system				
cotrol system	LCD control panel with SCGC4010NC/SCGC4100LT Optional: 1) Cloud Monitoring System 2) Cycle Run				

MPMC Generator Sets for ISO Reefer Container

Composition of Generator Sets

Engine

Vertical in-line 4 cylinders, 1800r/min, water-cooled

Generator

Rated power 15 kW, 460 V, 60 Hz, Insulation class-H, IP 56

Dedicated high strength frame, fuel tank and panels

Control panel and output panel

12V-90AH, 730CCA, maintenance-free battery

Heavy-duty oil bath filter air cleaner

Exhaust pipes and mufflers

Cooling fan and Dedicated plate structure radiator

Rated Output

Rated Output

15 kW, 460 V, 60 Hz, 3-phases

Reefer container measured power

6.5~7,5 kW

ISO 1496~2 (GB/T 7392)

Thermal containers & Spcification and testing,

9.2.1 The nominal voltage between phases on the power socket should be considered under three-phase and three-wire AC power supply in the design.

a.50 Hz, 360 V ~ 460 V

b.60 Hz, 400 V ~ 500 V

Frequency Deviation: ±2.5%

9.2.2 Under rated conditions, the maximum load of electrical equipment shall not exceed

18.75kva and the power consumption shall not exceed 15kW



Environment Temperature

Startup: -20 ~ +50°C

Operation: -40°C ~ +55°C

Relative Humidity: ≤100%

Altitude: ≤ 4000 m

Resistance: Wind, Sand, Rain, Snow, Haze, Salt-spray, Acid rain, Sandstorm etc.

Acceleration forces:

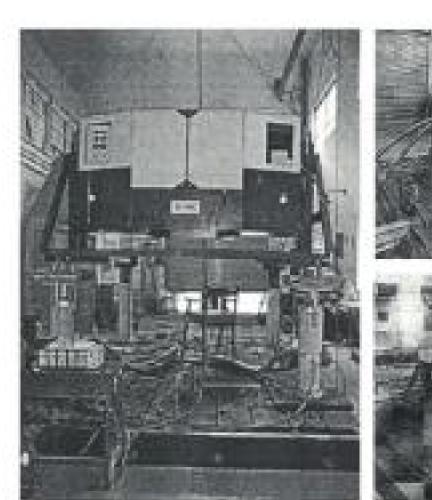
Under the circumstances of vehicle vibration, "g" as in acceleration of gravity.

X-Y-Z Vibration Test

Vertical vibration acceleration ≤ 2g

Horizontal vibration acceleration ≤ 2g

Longitudinal vibration acceleration ≤ 3g







- Clip-On
- Pin-Mount
- Rear-Cab
- Under-slung
- Side-Mount











ISO Reefer Containers

Diesel Generator Sets

Generator



Engine



Kuboha





RF-15-CIMC-FS



404D-22G



V2203-E2BG



4L22BD-RF1

Generator		
Model	RF-15-CIMC-FS	
Manufacturer	SHANGHAI CIMC GENERATING SET CO., LTD	
Excitation Method	Permanent magnet excitation	
IP Grade	1P56	
Insulation Class	H	

Engine					
Manufacturer	PERKINS	KUBOTA	LD		
Emission Regulation	U.S.EPA Tier 3	EU Stage 3 and China Off Road Stage 3	NA		
Water Temperature Switch	112 ± 2 °C (Belt)	112 ± 2 ℃ (KUS)	97 ± 2 °C (KUS)		
Model	404D-22G	V2203-E2BG	4L22BD-RF1		
Туре	Vertical in-line, 4-cycle, water- cooled diesel engine	Vertical in-line, 4-cycle, water- cooled diesel engine	Vertical in-line, 4-cycle, water- cooled diesel engine		
Number of Cylinders	4	4	4		
Stroke	100 mm	92.4 mm	95 mm		
Total Displacement	2.216 L	2.197 L	2.156 L		
Standby Output	24 kW	24.2 kW	23 kW		
Continuous Output	22 kW	20.2 kW	21 kW		
Rated Speed	1800 r/min	1800 r/min	1800 r/min		
Coolant Volume	10 L (Including reserve tank)	10 L (Including reserve tank)	10 L (Including reserve tank)		
Oil Tank Capacity	10 L	10 L	6 L		
Fuel Consumption	1.7~3.0 L/h (Loading reefer container)	1.7~3.0 L/h (Loading reefer container)	1.7~3.0 L/h (Loading reefer container)		
Air Cleaner Type	Heavy-duty oil bath filter air cleaner	Heavy-duty oil bath filter air cleaner	Heavy-duty oil bath filter air cleaner		
Starting System	12VDC-2.0kW Starting motor	12VDC-1.4kW Starting motor	12VDC-3.2kW Starting motor		
Starting Aid	12VDC Glow plug	12VDC Glow plug	12VDC ,380W Air heater		
Charging Generator	12V-65A Charging generator	12V-40A Charging generator	DC14V-350W Charging generator		

MPMC

Clip-On Generator Set for ISO Reefer Containers













MPMC Clip-on generator sets for Reefer Container are well designed with compact structure by high rates of efficiency and long lifespan for all refrigerated container units in over-the-road transportation, move with the reefer container.

Details

Mounting to the upper front structure of an ISO reefer container, MPMC Clip-on generator sets could be install/uninstall in a few minutes because the unit incorporates quick connections to the upper container corner castings with locking clip as well as attaching points on the side near the bottom that helps increasing safety by anchoring it to the container.

The gensets are completely welded steel structural assembly designed to take ≥5g's acceleration forces in all directions.

The forklift pockets are provided at the bottom of the generator set. The forklift pocket ends are close to prevent refrigeration unit damage.

Advantages

- Ensuring continuous steady power supply to refrigerated containers
- User-friendly operation and easy maintenance
- 3 High reliability and long lifespan
- 4 Patented products

Key Features

- Power Range: 15kW (18.75kVA)
- Fuel Tank Capacity: 410L / 440L
- Radiator: Plate structural aluminum radiator
- Emission Regulation: U.S. EPA Tier 3 / EU Stage & China Off-Road Stage 3
- Engine: Perkins / Kubota / LD 4 cylinders, 1800r/min
- Total Engine Displacement: 2.156L ~ 2.216L
- Air Cleaner: Heavy-duty oil bath filter air cleaner
- Coolant Volume: 10L (Including reserve tank)
- Generator Excitation: Permanent Magnet Excitation
- Control System: Instrument meters / LCD Control Panel

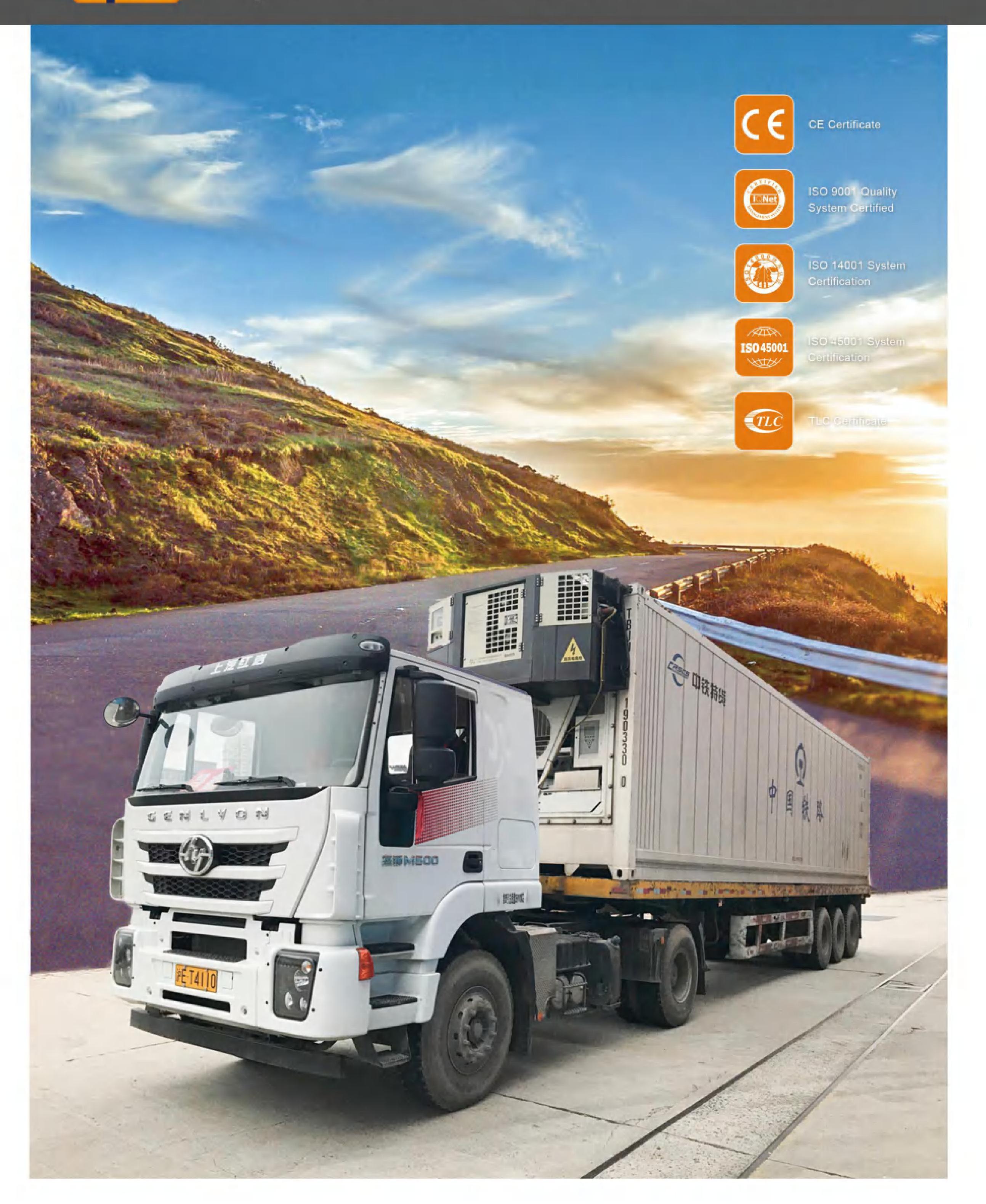








MPMC Clip-On Generator Set for ISO Reefer Containers



60	Diesel Genset Three-Phase			
Hz	Diesel Genset Three-Phase Clip-On	Perkins	Kubota	Ð

	tems	MCCT-1GP (C) MCCT-1		1GK (C)	MCCT-1GL (C)
Emission	n Regulation	U.S. EPA Tier 3		and China d Stage 3	NA
Rate	d Power		15 kW (1	8.75 kVA)	
Rate	d Voltage		46	0 V	
Rated	Frequency		60	Hz	
	Length		2320) mm	
Overall Dimension	Width		690	mm	
	Height		1100) mm	
V	/eight	980	kg (Without	oil and cool	ant)
Fuel Ta	nk Capacity	410 L	41	0 L	440 L
Fuel Co	onsumption	1.7~3.0	1.7~3.0 L/h (Loading reefer container)		
Oil Tan	ank Capacity 10 L		L	6 L	
Coola	nt Volume	10 L (Including reserve tank)		k)	
Operation Te	mperature Range	-40°C~55°C			
Engine	Model	404D-22G	V2203	-E2BG	4L22BD-RF1
Liigiile	Manufacturer	PERKINS	KUB	ОТА	LD
	Model		RF-15-C	CIMC-FS	
Generator	Manufacturer	SHANGHAI	CIMC GENE	ERATING SE	ET CO., LTD
	Excitation Method	Pe	rmanent ma	gnet excitati	on
	Control Unit	EG-1 SCGC4010NC or SCGC4		0NC or SCGC4100LT	
	Instrument	Hour meter, temperature gauge, oil pressure, DC voltmeter, indicator.			
Control System	Protection Feature	Low oil pressure, high coolant temperature, low coolant level, load generator short circuit or over load. high		temperature load, over/u	sure, high coolant e, low coolant level, over nder engine speed, c voltage, low fuel level,
	Generator Set Control	ON/ OFF switch START/ PREHEART switch			witch EHEAT switch N/ STOP CYCLE switch

MPMC Pin-Mount Generator Set for ISO reefer containers

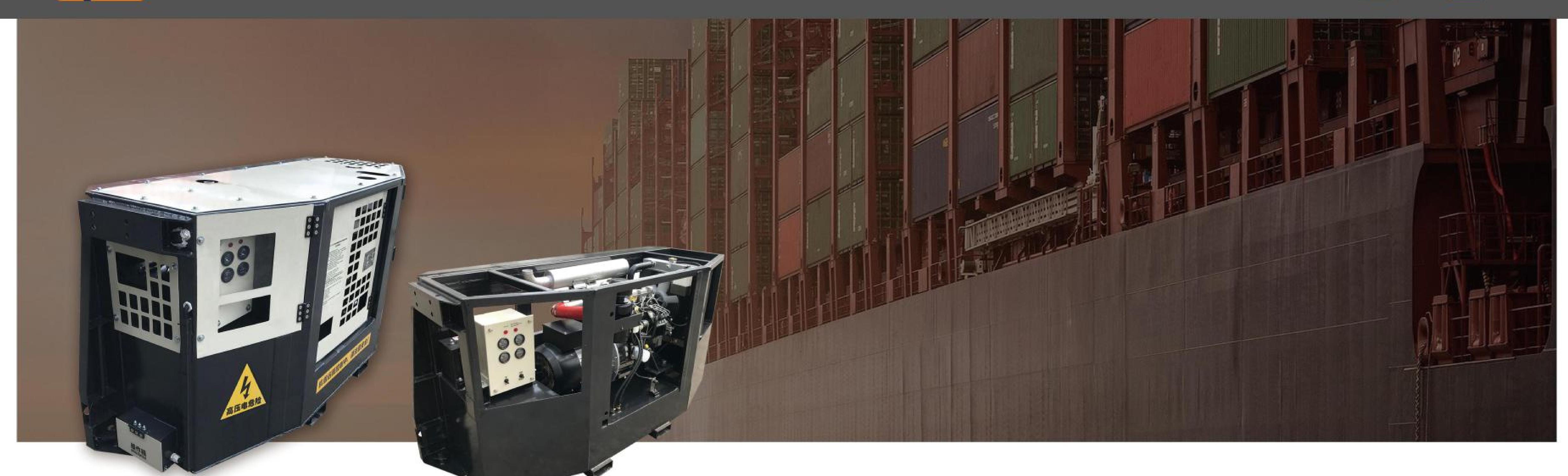












Key Features

- Power Range: 15kW (18.75kVA)
- 9 Fuel Tank Capacity: 410L / 440L
- Operation Temperature Range: -40°C~55°C
- Radiator: Plate structural aluminum radiator
- Emission Regulation: U.S. EPA Tier 3 / EU Stage 3 & China Off-Road Stage 3 / NA
- Engine: Perkins / Kubota / LD 4 cylinders, 1800r/min
- Total Engine Displacement: 2.156L ~ 2.216L
- Air Cleaner: Heavy-duty oil bath filter air cleaner
- © Coolant Volume: 10L (Including reserve tank)
- @ Generator: SHANGHAI CIMC GENERATING SET CO., LTD
- Generator Excitation: Permanent Magnet Excitation
- Control System: Instrument meters / LCD Control Panel

Mounting Instruction

Mounting to the upper front structure of an ISO reefer container, MPMC Pin-mount generator sets could be installed/uninstalled in a few minutes because the unit incorporates quick connections to the top mounting holes of the reefer container with mounting pin, as well as attaching points on the side near the bottom that helps increasing safety by anchoring it to the container.

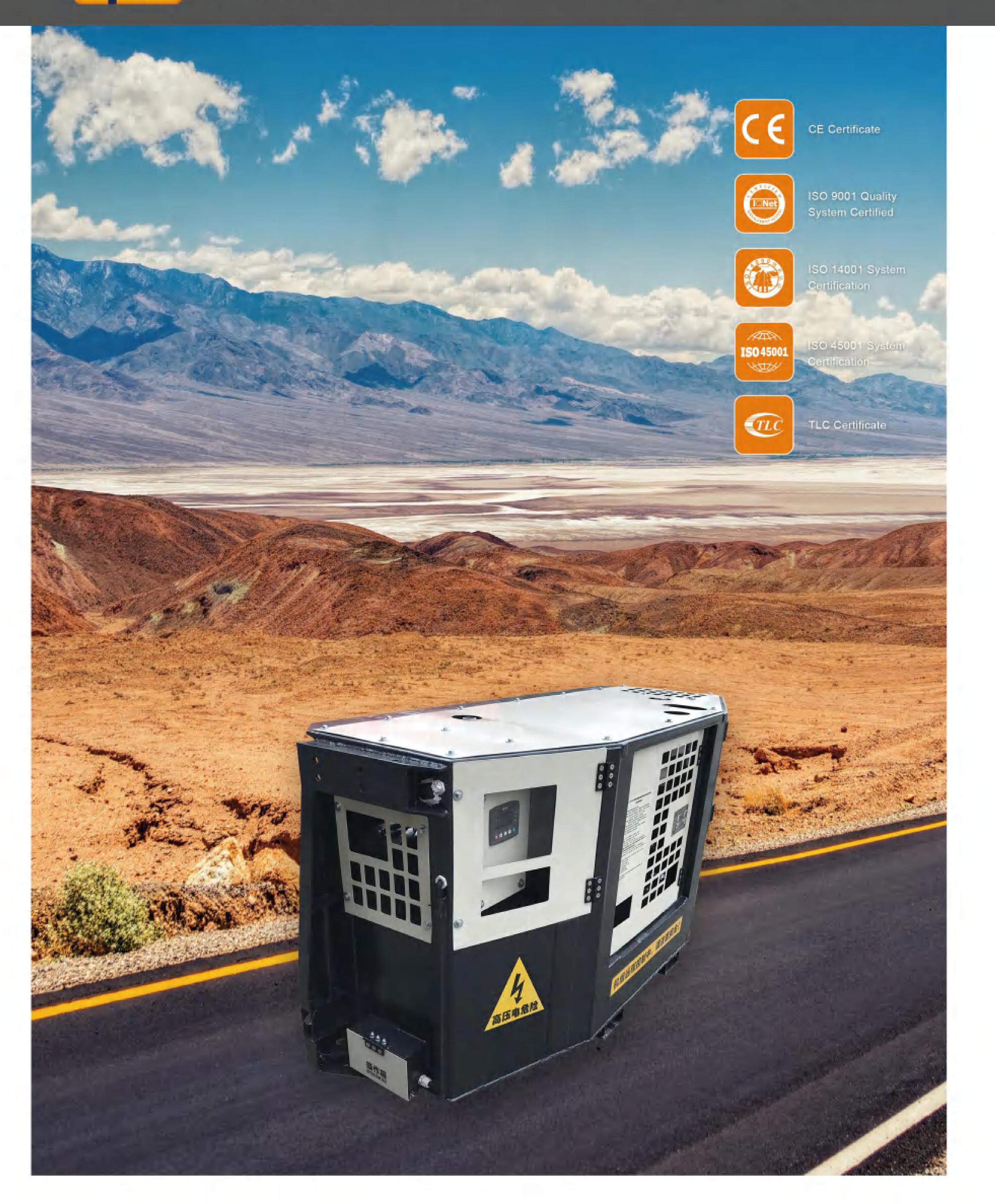








MPMC Pin-Mount Generator Set for ISO reefer containers



60	Diesel Genset Three-Phase	
Hz	Pin-Mount	

Perkins Kubota

Items		MCCT-1GPA (C)	MCCT-1	GKA (C)	MCCT-1GLA (C)	
Emission	n Regulation	U.S. EPA Tier 3 EU Stage 3 Off Road			NA	
Rate	d Power	15 kW (18.75 kVA)				
Rate	d Voltage		46	0 V		
Rated	Frequency		60	Hz		
	Length		2320) mm		
Overall dimension	Width	811(689-	+122) mm		690 mm	
	Height		1100) mm		
V	/eight	980	kg (Withou	t oil and cool	ant)	
Fuel Ta	nk Capacity	410 L	41	0 L	440 L	
Fuel Consumption		1.7~3.0	0 L/h (Loadir	ng reefer con	tainer)	
Oil Tan	k Capacity	10 L		6 L		
Coola	nt Volume	10 L (Including reserve tank)				
Operation Te	mperature Range	-40°℃~55°℃				
	Model	404D-22G	V2203-E2BG		4L22BD-RF1	
Engine	Manufacturer	PERKINS	KUB	ОТА	LD	
	Model		RF-15-0	CIMC-FS		
Generator	Manufacturer	SHANGHAI	CIMC GENI	ERATING SE	ET CO., LTD	
	Excitation Method	Pe	ermanent ma	gnet excitati	on	
	Control Unit	EG-1		SCGC401	0NC or SCGC4100LT	
	Instrument	Hour meter, temperature gauge, oil pressure, DC voltmeter, indicator.		LCD		
Control System Protection Feature		Low oil pressure, high contemperature, low coolar generator short circuit of	nt level,	temperature load, over/u	sure, high coolant e, low coolant level, over nder engine speed, c voltage, low fuel level,	
	Generator Set Control	ON/ OFF switch START/ PREHEART sv	h ON/ OFF switch START/ PREHEAT switch		EHEAT switch	

MPMC Rear-cab Generator Set for ISO Reefer Containers













Key Features

- Power Range: 15kW (18.75kVA)
- Fuel Tank Capacity: 170L
- Operation Temperature Range: -40°C~55°C
- @ Radiator: Plate structural aluminum radiator
- Emission Regulation: U.S. EPA Tier 3 / EU Stage 3 and China Off Road Stage 3 / NA
- © Engine: Perkins / Kubota / LD 4 cylinders, 1800r/min
- Total Engine Displacement: 2.156L ~ 2.216L
- Air Cleaner: Heavy-duty oil bath filter air cleaner
- © Coolant Volume: 10L (Including reserve tank)
- @ Generator: SHANGHAI CIMC GENERATING SET CO., LTD
- Generator Excitation: Permanent Magnet Excitation
- Control System: Instrument meters / LCD Control Panel

Mounting Instruction

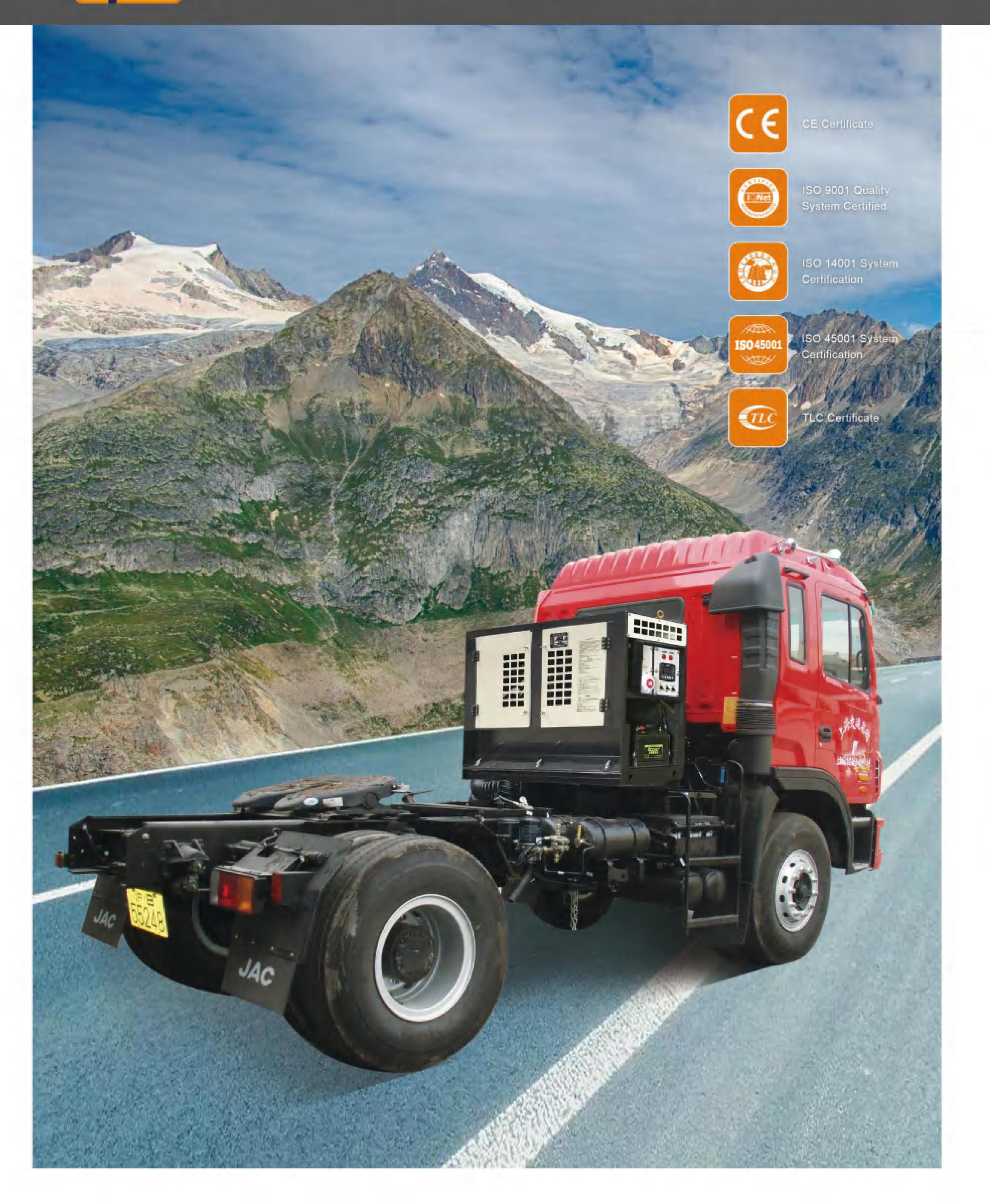
MPMC Rear-cab generator sets are mounted to rear-cab of container trucks with the auxiliary steel structure installation frame and 6 - M16 bolts for easy installation and removal. Two M16 lifting eyes are provided at the top of the generator set.







MPMC Rear-cab Generator Set for ISO Reefer Containers



60	Diecel Geneat Three Phase				
Hz	Diesel Genset Three-Phase Rear-Cab	89 Perkins	Kubota	Ð	

I	tems	MCCT-2GP (C)	MCCT-	2GK (C)	MCCT-2GL (C)
Emission	n Regulation	U.S. EPA Tier 3 EU Stage 3 a Off Road 3			NA
Rate	d Power		15 kW (1	8.75kVA)	
Rate	d Voltage		46	0 V	
Rated	Frequency		60	Hz	
	Length		1550 (148	0+70) mm	
Overall Dimension	Width		660	mm	
	Height		1040) mm	
V	/eight	750	kg (Without	oil and coola	ant)
Fuel Ta	nk Capacity		17	0 L	
Fuel Co	onsumption	1.7~3.0 L/h (Loading reefer container)		tainer)	
Oil Tan	k Capacity	10 L 6 L		6 L	
Coola	nt Volume	e 10 L (Including reserve tank)		k)	
Operation Te	mperature Range		-40°C	~55°C	
Engine	Model	404D-22G	V2203	-E2BG	4L22BD-RF1
Engine	Manufacturer	PERKINS	KUB	ОТА	LD
	Model		RF-15-0	IMC-FS	
Generator	Manufacturer	SHANGHAI	CIMC GENE	ERATING SE	T CO., LTD
	Excitation Method	Pe	ermanent ma	gnet excitation	on
	Control Unit	EG-1	EG-1 SCGC4010NC or SCGC410		0NC or SCGC4100LT
	Instrument	Hour meter, temperature gauge, oil pressure, DC voltmeter, indicator.		LCD	
Control System	Protection Feature	Low oil pressure, high coolant temperature, load, over/und generator short circuit or over load. temperature, high coolant temperature, load, over/und		sure, high coolant , low coolant level, over nder engine speed, voltage, low fuel level,	
	Generator Set Control	t ON/ OFF switch START/ PREHEART switch CYCLE RUN/ STOP CYCL		EHEAT switch	

MPMC Under-slung Generator Set for ISO reefer container

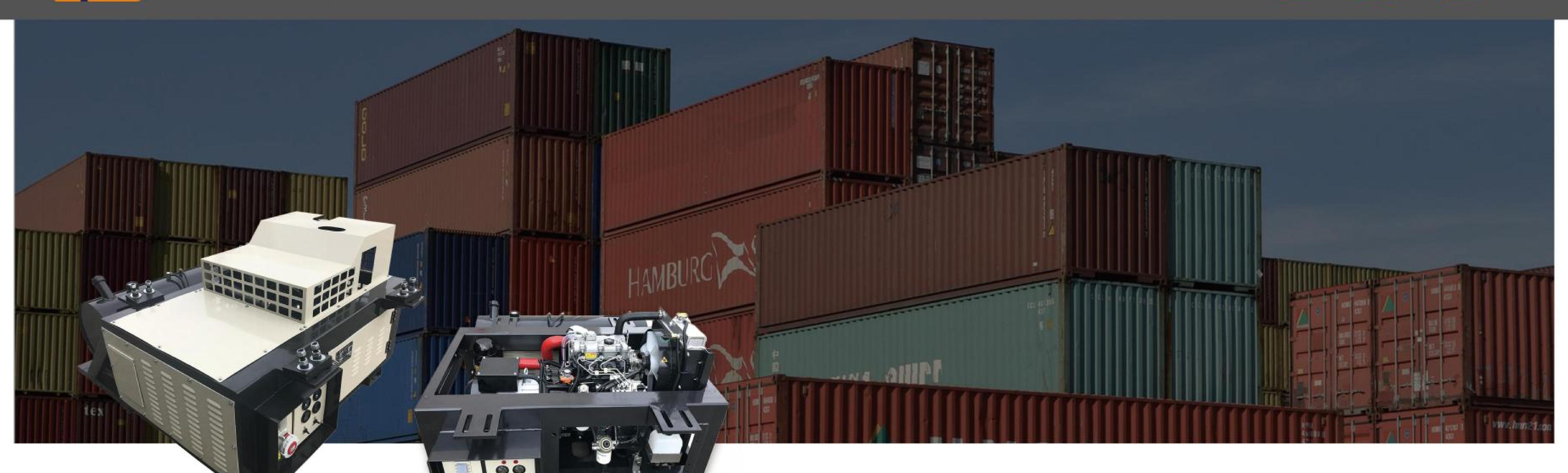












Key Features

- Power Range: 15kW (18.75kVA)
- Fuel Tank Capacity: 190L
- Operation Temperature Range: -40°C~55°C
- @ Radiator: Plate structural aluminum radiator
- Emission Regulation: U.S. EPA Tier 3 / EU Stage 3 and China Off Road Stage 3 / NA
- © Engine: Perkins / Kubota / LD 4 cylinders, 1800r/min
- Total Engine Displacement: 2.156L ~ 2.216L
- Air Cleaner: Heavy-duty oil bath filter air cleaner
- © Coolant Volume: 10L (Including reserve tank)
- @ Generator: SHANGHAI CIMC GENERATING SET CO., LTD
- Generator Excitation: Permanent Magnet Excitation
- Control System: Instrument meters / LCD Control Panel

Mounting Instruction

MPMC Under-slung generator sets are center-mounted to the chassis with 4 sets of mounting clamps and 8 - M20 bolts for easy installation and removal.









MPMC Under-slung Generator Set for ISO reefer container



60	Diesel Genset	Three-Phase
Hz	Under-Slung	

Perkins Kubota

, In

lt.	tems	MCCT-3GP (C) MCCT-3		3GK (C)	MCCT-3GL (C)	
Emission	n Regulation	U.S. EPA Tier 3	EU Stage 3 Off Road		NA	
Rate	d Power		15 kW (1	8.75kVA)		
Rated	d Voltage		46	0 V		
Rated I	Frequency	60 Hz				
	Length	1450 (25+14	400+25) mm		1450 (1400+50) mm	
Overall Dimension	Width		1640) mm		
	Height	855 (585+270) mm	860 (585-	+275) mm	805 (585+220) mm	
V	/eight	780 kg (Without oil and coolant)			ant)	
Fuel Tai	nk Capacity		19	0 L		
Fuel Co	onsumption	1.7~3.0 L/h (Loading reefer container)			tainer)	
Oil Tan	k Capacity	10 L 6 L			6 L	
Coolai	nt Volume	10 L (Including		L (Including reserve tank)		
Operation Ter	mperature Range	-40°C~55°C				
Engine	Model	404D-22G	V2203	-E2BG	4L22BD-RF1	
Engine	Manufacturer	PERKINS	KUB	ОТА	LD	
	Model		RF-15-0	CIMC-FS		
Generator	Manufacturer	SHANGHAI	CIMC GENI	ERATING SE	T CO., LTD	
	Excitation Method	Pe	ermanent ma	gnet excitati	on	
	Control Unit	EG-1		SCGC401	0NC or SCGC4100LT	
	Instrument		Hour meter, temperature gauge, oil pressure, DC voltmeter, indicator.			
Control System		Low oil pressure, high c temperature, low coolan generator short circuit o	t level,	temperature load, over/u	sure, high coolant , low coolant level, over nder engine speed, ; voltage, low fuel level,	
	Generator Set Control	ON/ OFF switch START/ PREHEART sv	vitch	ON/ OFF st	witch EHEAT switch N/ STOP CYCLE switch	

MPMC Side-Mount Generator Set for ISO reefer container















- Power Range: 15kW (18.75kVA)
- Fuel Tank Capacity: 145L

Key Features

- Operation Temperature Range: -40°C~55°C
- @ Radiator: Plate structural aluminum radiator
- Emission Regulation: U.S. EPA Tier 3 / EU Stage 3 and China Off Road Stage 3 / NA
- © Engine: Perkins / Kubota / LD 4 cylinders, 1800r/min
- W Total Engine Displacement: 2.156L ~ 2.216L
- Air Cleaner: Heavy-duty oil bath filter air cleaner
- © Coolant Volume: 10L (Including reserve tank)
- @ Generator: SHANGHAI CIMC GENERATING SET CO., LTD
- Generator Excitation: Permanent Magnet Excitation
- Control System: Instrument meters / LCD Control Panel

Mounting Instruction

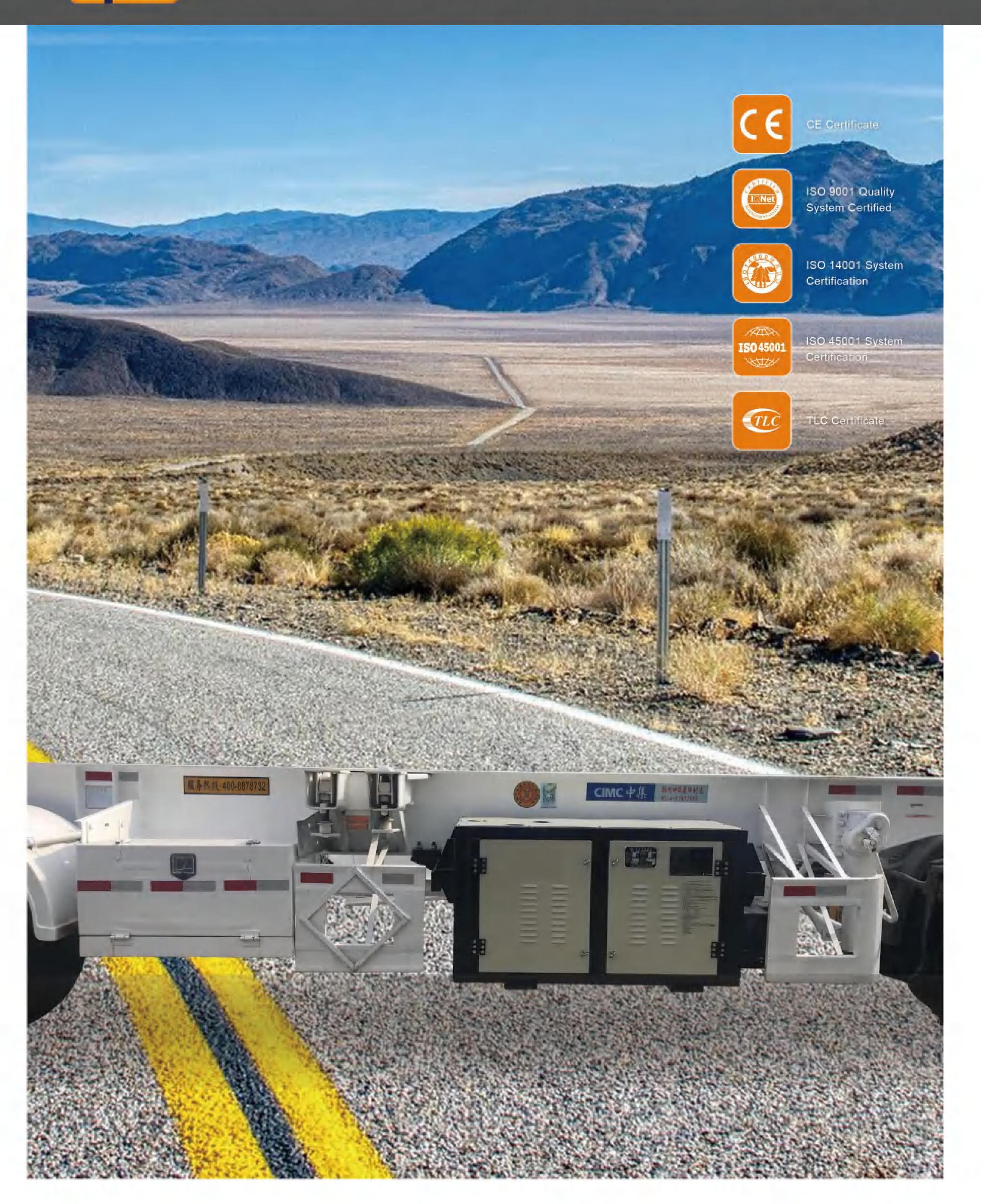
MPMC Side-mount generator sets are side-mounted to the chassis with 4 sets of mounting clamps, 2 sets of mounting arms and 8 - M20 bolts for easy installation and removal.







MPMC Side-Mount Generator Set for ISO reefer container



CO Diocal Concet Three Phace		
Diesel Genset Three-Phase Side-Mount	Perkins	בלכלני

Items		MCCT-3GPS (C)	MCCT-3	GKS (C)	MCCT-3GLS (C)	
Emission	Regulation	U.S. EPA Tier 3		and China d Stage 3	NA	
Rated Power		15 kW (18.75kVA)				
Rated	d Voltage	460 V				
Rated	Frequency	60 Hz				
	Length	1660 (160+1340+160) mm				
Overall	Width	1150 mm(Single beam installation), 1880 mm(Double beam installati				
	Height	855 (585+270) mm	865 (585-	+280) mm	855 (585+270) mm	
V	/eight	780 kg (Without oil and coolant)				
Fuel Tank Capacity		145 L				
Fuel Consumption		1.7~3.0 L/h (Loading reefer container)				
Oil Tan	k Capacity	10 L			6 L	
Coolar	nt Volume	10 L (Including reserve tank)				
Operation Temperature Range		-40°℃~55°℃				
Engino	Model	404D-22G	V2203-E2BG		4L22BD-RF1	
Engine	Manufacturer	PERKINS	KUBOTA		LD	
	Model	RF-15-CIMC-FS				
Generator	Manufacturer	SHANGHAI	CIMC GENE	RATING SET CO., LTD		
	Excitation Method	Permanent magnet excitation			on	
	Control Unit	EG-1		SCGC4010NC or SCGC4100LT		
Control System	Instrument	Hour meter, temperature gauge, oil pressure, DC voltmeter, indicator.		LOD		
	Protection Feature	Low oil pressure, high coolant temperature, low coolant level, generator short circuit or over load.		Low oil pressure, high coolant temperature, low coolant level, over load, over/under engine speed, high/ low AC voltage, low fuel level, etc		
	Generator Set Control	ON/ OFF switch START/ PREHEART switch		ON/ OFF switch START/ PREHEAT switch CYCLE RUN/ STOP CYCLE switch		

MPMC SCGC-1GPAR Generator Set

For Railway ISO Reefer Container Transportation



Mounted to the upper front structure of an ISO reefer container, SCGC-1GPAR series of generator set is born for railway ISO reefer container transportation.

It incorporates quick connections to the top mounting holes of the reefer container with mounting pin and to the upper container corner casting with locking clip, as well as attaching points on the side near the bottom that helps increasing safety by anchoring it to the container.

The genset is completely welded steel structural assembly designed to take ≥5g's acceleration forces in all directions. The forklift pocket ends are enclosed to prevent refrigeration unit damage.

Engine

Control system



SCGC4010NC or SCGC4100LT

Advantages

- Separate 12V-120AH batteries for startup & cloud monitoring
- Cycle run system
- Auto-start function
- Pin-mount(Prime)&Clip-on(Auxiliary)
- 10s of signal alert before startup within 15m
- 6 Flame proof muffler
- M Shock resistance
- Railway safety credential





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MPMC SCGC-1GPAR Generator Set

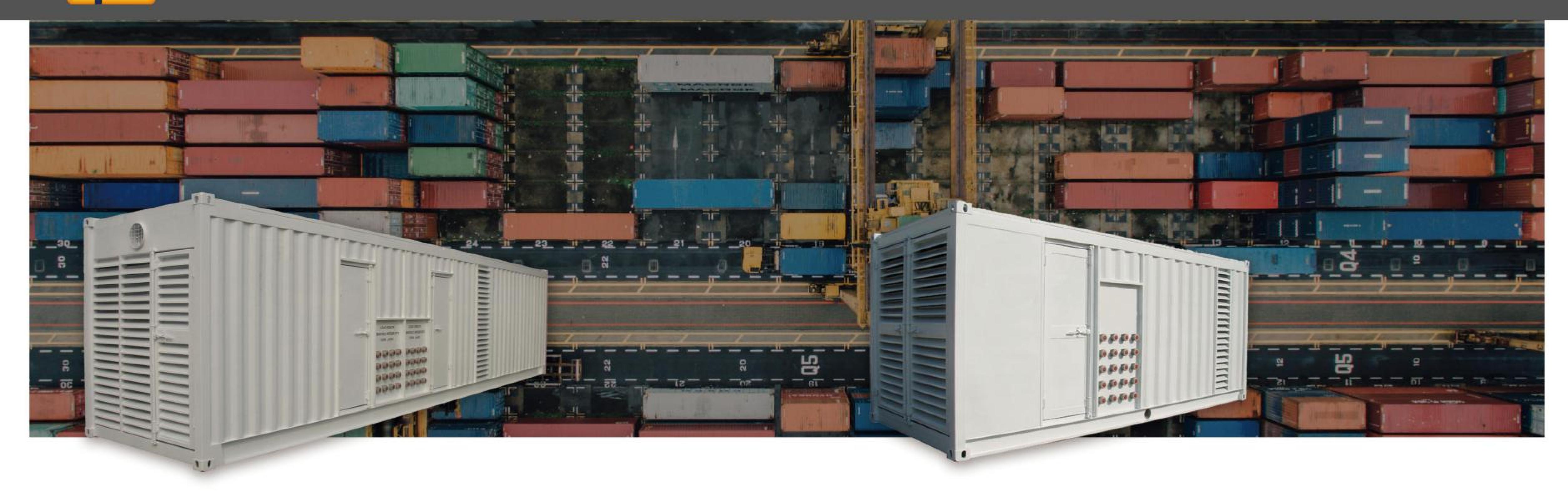
For Railway ISO Reefer Container Transportation





It	ems	SCGC-1GPAR	
Emission	Regulation	U.S. EPA Tier 3	
Rated Power		15 kW (18.75kVA)	
Rated	Voltage	460 V	
Rated F	requency	60 Hz	
Overall Dimension	Length	2320 mm	
	Width	811(689+122) mm	
	Height	1100 mm	
Weight		980 kg (Without oil and coolant)	
Fuel Tank Capacity		425 L	
Fuel Consumption		1.7~3.0 L/h (Loading reefer container)	
Oil Tank Capacity		10 L	
Coolant Volume		10 L (Including reserve tank)	
Operation Ten	nperature Range	-40°C~55°C	
	Model	404D-22G	
Engine	Manufacturer	PERKINS	
	Model	RF-15-CIMC-FS	
Generator	Manufacturer	SHANGHAI CIMC GENERATING SET CO., LTD	
	Excitation Method	Permanent magnet excitation	
	Control Unit	SCGC4010NC / SCGC4100LT	
Control System	Instrument	LCD	
	Protection Feature	Low oil pressure, high coolant temperature, low coolant level, over lo over/ under engine speed, high/ low AC voltage, low fuel level, etc.	
	Generator Set Control	ON/ OFF switch RUN/ STOP switch CYCLE RUN/ STOP CYCLE switch	

MPMC Power Pack For Reefer Container



MCCT-4 & MCCT-5 Key Features

- MCCT-4 & MCCT-5 Series power pack are specifically designed for railway / freighter and refrigerated yard at docks. The power pack supplies electrical power for ISO container refrigeration systems.
- The power pack is powered by water-cooled, heavy-duty, industrial type CUMMINS diesel engine that is closed couple via SAE flexible disk/flange coupling to the MARATHON brush-less, synchronous, self-regulated alternator.
- 69 The generator set frame is insulated from the container floor by anti-vibration mountings.
- The safety shutdown system and the electricity measuring data are provided by HGM6110 controller.
- The power pack is manufactured and rated according to continuous power output as outlined in ISO-8528, overload power in accordance with ISO-3046.

MCCT-4



Railway transportation

MCCT-5



- Refrigerated container yard
- Docks
- Freighter

MPMC Power Pack For Reefer Containers









Power Pack Model	MCCT-4-620H	MCCT-4-725H	MCCT-4-750H	MCCT-4-800H	MCCT-4-900H	
Rated Output (kW)	620	725	750	800	900	
Rated Voltage	460V					
Rated Frequency	60 Hz					
Receptacle Quantity	62	72	74	80	90	
Overall Dimension	40ft ISO container (L:12192mm, W:2438mm, H:2896mm)					
Weight	16000 kg					
Fuel Tank Capacity	1000 L					
Engine Model	KT38-G	KTA38-G2	KTA38-G2B	KT38-G2A	KTA38-G4	
Manufacturer	Cummins					
Rated Output (kW)	679	809	830	915	1007	
Rated Speed	1800 r/min					
Fuel Consumption	196g/kW.h at 100% Rated power					
Coolant Capacity	290 ~ 310 L					
Oil Tank Capacity	114 ~ 140 L					
Generator Model	MX-H-620-4	MX-H-725-4	MX-H-750-4	MX-H-800-4	MX-H-900-4	
Manufacturer	Marathon					
Insulation Class	H/H					
Drip Proof	IP22					
Control Unit	HGM6110					
Instrument	Hour meter, temperature gauge, oil pressure gauge and LCD					
Protection Feature	Low oil pressure, High coolant temperature, Low coolant level, Over speed, Under speed, High voltage,Low voltage,over current					
Generator Set Control	"IDLE/RUN" switch, "START/STOP" switch, "EMERGENCY STOP" switch					

Power Pack Model	MCCT-5-350H	MCCT-5-400H	MCCT-5-450H	MCCT-5-470H	MCCT-5-500H		
Rated Output (kW)	350	400	450	470	500		
Rated Voltage	460V						
Rated Frequency	60 Hz						
Receptacle Quantity	34	40	44	46	50		
Overall Dimension	20ft ISO container (L:6058mm, W:2438mm, H:2591mm)						
Weight	9000 kg						
Fuel Tank Capacity	2000 ~ 2500 L						
Engine Model	KTA19-G2	KTA19-G3	KTA19-G4	KTAA19-G5	KTAA19-G6A		
Manufacturer	Cummins						
Rated Output (kW)	392	463	507	533	590		
Rated Speed	1800 r/min						
Fuel Consumption	196g/kW.h at 100% Rated power						
Coolant Capacity	150 ~ 200 L						
Oil Tank Capacity	38 ~ 50 L						
Generator Model	MP-H-350-4	MP-H-400-4	MP-H-450-4	MP-H-470-4	MP-H-500-4		
Manufacturer	Marathon						
Insulation Class	H/H						
Drip Proof	IP22						
Control Unit	HGM6110NC						
Instrument	Hour meter, temperature gauge, oil pressure gauge and LCD						
Protection Feature	Low oil pressure, High coolant temperature, Low coolant level, Over speed, Under speed, High voltage,Low voltage,over current						
Generator Set Control	"IDLE/RUN" switch, "START/STOP" switch, "EMERGENCY STOP" switch						

MPMC provides customers in-time, professional, and point to point after sales service with technically qualified team and wide service network.



- ★ Head office in Shanghai
- ★ UAE Office

★ USA Branch

★ UK Office



★ Manufacturing base in Jiangsu

Strong and wide service network makes customers more satisfied

MPMC has numbers of senior technicians with over 10 years' experience on average, and qualified staff responsible for before and after sales service.





