



Millennium Power Manufacturing Corp.

<http://www.mpmc-china.com>

MPS150-2 (1106C-E66TAG3)

Generating set Technical Data Sheet



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ISO9001:2000
MPMC GENERATING SETS



STANDARD SPECIFICATION

General features:

- Composed of Perkins(UK) diesel engine and Stamford or MPMC alternator
- 12V DC start motor and storage battery
- Brushless, Self-excited, IP23, insulation class H alternator
- Engine cooling system: water-cooled
- Key start panel control system as standard, digital auto-start panel is optional
- 8-hour operation base tank
- Optional open type or silent type
- All generating sets are gone through rigorous testing before being released to the market place, including 50% load, 75% load, 100% load , 110% load and all protection function (overspeed stop, high water temperature, low oil pressure, battery charging fail, emergency stop)



Genset Main Technical Data

3-PH, 60Hz@1800RPM, 480/277V (Also Can Be Made According To Customers' Special Requirements)

Genset Model	Genset Specification					Engine Specification				Alternator Model
	kW		Cons. 100% (L/H)	dB(A) @7m	Tank (L)	Model	Cyl.	Gov.	Asp.	
	ESP	PRP								
MPS150-2	150	136	40	N/A	350	1106C-E66TAG3	6	E	TCA	UCI 274E
MPS150S-2	150	136	40	75	380	1106C-E66TAG3	6	E	TCA	UCI 274E
MPM150-2	150	136	40	N/A	350	1106C-E66TAG3	6	E	TCA	MPA 274D
MPM150S-2	150	136	40	75	380	1106C-E66TAG3	6	E	TCA	MPA 274D

1) Available in various voltages

2) To show MPMC Generating Sets Model

For example: MCM38-1A, it is the open generation set.

MCM38S-1A, it is the silent generating set.

3) ESP=Standby power standby duty, operation under variable load, without overload

PRP=Prime power continuous duty operation, under variable load, 10% overload permissible 1/12hr

4) E=Electronic speed governor;

M=Mechanical speed governor

5) Asp=Aspiration;

NA=Naturally Asp;

TC=Turbocharged;

TW=Turbocharged water-cooled;

TCA= Turbocharged air-air cooled

6) Technical data is subject to work test conditions

Reliable Performance

Voltage regulation

Voltage regulation maintained within $\pm 0.5\%$ as follow:

- Power factor Between 0.8~1.0 lag
- From no load to full load, any steady load
- Speed droop variation under 4.5%

Frequency/Speed undulation

- Change load from 0-100%, Frequency/Speed Droop Ratio within 5%
- Load from 25-100%, any steady load Frequency/Speed undulation within 0.25%

Effect factor of telecom

- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

Criterion

- ISO8528, GB/T2820
- EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ISO9001:2000 Quality Control System

Dimension and Weight



Open Type

Overall size (L*W*H)
2400×980×1600

Weight: 1490kg



Silent Type

Overall size (L*W*H)
3400x1350x1950

Weight: 2100kg

ENGINE SPECIFICATION

Perkins (UK) Diesel Engine

Technical Data

Engine Model	1106C-E66TAG3
Emissions statement	EU97/68/EC Stage II
Number of Cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged air-air cooled
Bore×Stroke (mm×mm)	105 x 127
Displacement (Liter)	6.6
Compression Ratio	16.2:1
Prime Power/Speed (kW/rpm)	146.4/1800
Standby Power/Speed (kW/rpm)	163.4/1800
Speed Governor	Electrical
Cooling System	Water-cooled
Speed Stability (%)	≤5%
Total lubrication system capacity (L)	16.5
Coolant capacity (inc. radiator) (L)	21.0
Fuel Consumption at 100% Load (g/kWh)	218(at 1800RPM)
Starter Motor	12 V
Alternator	12 V

Alternator SPECIFICATION

Stamford Alternator (Standard)

MPMC Alternator (Option)

Technical Data

Alternator Model	UCI XXXX (Stamford) MPA XXXX(MPMC) Please Refer To The “ Genset Main Technical Data”
Exciter type	Brushless, Self-excited
Power factor	0.8
Voltage Adjust range	≥5%
Voltage Regulation NL-FL	≤±0.5%
Insulation Grade	H
Protection Grade	IP23

Control System

1. Standard: MP170HC Key Start

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

- * Start/Stop controller
- * Ampere meter
- * Voltmeter and selector switch
- * Frequency meter/ Water temperature gauge/ Oil pressure gauge/
Hour counter/ Battery voltage meter
- * Emergency stop pushbutton
- * Alarm System: Over speed、High Engine Temperature
Low Oil Pressure、Charge Fail
- * Protection System: Over speed、High Engine Temperature、Low Oil
Pressure、Emergency Stop. And the other protection function
pre-setting

2. Option: Smartgen HGM6110 Digital Auto Start

3. Option: Smartgen HGM6120 Digital Auto Start (Option assembled with the ATS)

4. Option: Deep Sea DSE5210 Digital Auto Start

5. Option: Deep Sea DSE5220 Digital Auto Start (Option assembled with the ATS)

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power. (AMF)

Functions:

- * Automatic Start/Stop
- * 3 start attempts failure and Automatic Crank Disconnect
- * Parameters display (V/A/Hz/Hour)
- * Engine monitoring and protection
- * Charge alternator exciting and Charge alternator fail alarm
- * Running hour counting
- * Settings can be adjustable via key buttons on front panel

6. option: BGC-L

(Main used in Multiple gen-sets, load sharing)



(1)



(2)



(3)



(4)



(5)



(6)