

Millennium Power Manufacturing Corp.

http://www.mpmc-china.com

MPS200-1E (1306C-E87TAG3) Generating set Technical Data Sheet



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STANDARD SPECIFICATION

General features:

- Composed of Perkins(UK) diesel engine and Stamford or MPMC alternator
- 24V 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, 50Hz@1500RPM, 400/230V (Also Can Be Made According To Customers' Special Requirements)

	Genset Specification					Engine Specification				
Genset	kVA		Cons.	dB(A)	Tank					Alternator
Model	ESP	PRP	100% (L/H)	@7m	(L)	Model	Cyl.	Gov.	Asp.	Model
MPS200-1E	220	200	43.2	N/A	500	1306C-E87TAG3	6	Е	TCA	UCI 274H
MPS200S-1E	220	200	43.2	75	550	1306C-E87TAG3	6	Е	TCA	UCI 274H
MPM200-1E	220	200	43.2	N/A	500	1306C-E87TAG3	6	Е	TCA	MPA 274G
MPM200S-1E	220	200	43.2	75	550	1306C-E87TAG3	6	Е	TCA	MPA 274G

- 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.

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- 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 ±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%

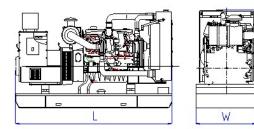
Effect factor of telecom

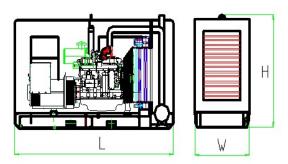
- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

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) 2500×1000×1650

Weight: 1600kg

Silent Type

Overall size (L*W*H) 3500x1350x1950

Weight: 2350kg



ENGINE SPECIFICATION

Perkins (UK) Diesel Engine

Technical Data

1306C-E87TAG3 EU97/68/EC Stage II 6			
6			
6			
Vertical in-line			
Four stroke			
Turbocharged air-air cooled			
116.6 x 135.9			
8.7			
16.9:1			
180/1500			
199/1500			
Electrical			
Water-cooled			
≤5%			
26.4			
37.2			
207(at 1500RPM)			
24 V			
24 V			

Alternator SPECIFICATION

Stamford Alternator (Standard) MPMC Alternator (Option)

Technical Data

	UCI XXXX (Stamford)					
Alternator Model	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	Н					
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)







(3)



(4)



(6)