

Millennium Power Manufacturing Corp.

http://www.mpmc-china.com

MYS6-1(3TNM68-GGE) Generating set Technical Data Sheet



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STANDARD SPECIFICATION

General features:

- Composed of Yanmar (Japan) 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, 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
MYS6-1	6.6	6	1.5	N/A	30	3TNM68-GGE	3	М	NA	BCI 164A
MYS6S-1	6.6	6	1.5	70	35	3TNM68-GGE	3	М	NA	BCI 164A
MYM6-1	6.6	6	1.5	N/A	30	3TNM68-GGE	3	М	NA	MPA 164B
MYM6S-1	6.6	6	1.5	70	35	3TNM68-GGE	3	М	NA	MPA 164B

- 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%

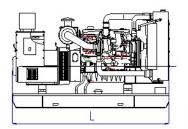
Effect factor of telecom

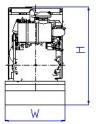
- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

Criterion

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

Dimension and Weight

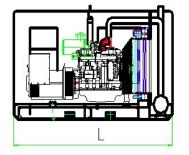


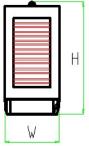


Open Type

Overall size (L*W*H) 1150×500×800

Weight: 240kg





Silent Type

Overall size (L*W*H) 1550x800x1000

Weight: 350kg



ENGINE SPECIFICATION

Yanmar (Japan) Diesel Engine

Technical Data

3TNM68-GGE				
EPA Tier 4				
3				
Vertical in-line				
4 stroke				
Natural Aspiration				
68 x 72				
0.784				
23.5:1				
5.5/1500				
6.1/1500				
Mechanical				
Water-cooled				
≤5%				
2.5				
1				
265				
12 V				
12 V				

Alternator SPECIFICATION

Stamford Alternator (Standard) MPMC Alternator (Option)

Technical Data

CI XXXX (Stamford) PA XXXX(MPMC)				
PA XXXX(MPMC)				
MPA XXXX(MPMC)				
Please Refer To The " Genset Main Technical Data"				
Brushless, Self-excited				
3				
%				
0.5%				
IP23				
u 3				



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)





