



Millennium Power Manufacturing Corp.
<http://www.mpmc-china.com>

MLPS6-2(TR1)

Generating set Technical Data Sheet



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ISO9001:2000
MPMC GENERATING SETS



STANDARD SPECIFICATION

General features:

- Composed of Lister Petter 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: Air 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								
MLPS6-2	6	5.5	1.9	N/A	30	TR1	1	M	NA	BCI 164A
MLPS6S-2	6	5.5	1.9	70	35	TR1	1	M	NA	BCI 164A
MLPM6-2	6	5.5	1.9	N/A	30	TR1	1	M	NA	MPA 164B
MLPM6S-2	6	5.5	1.9	70	35	TR1	1	M	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
- 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 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%

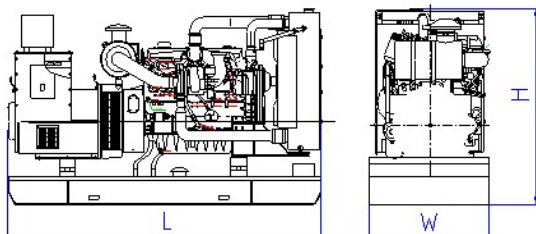
Effect factor of telecom

- 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)
1000×600×1000

Weight: 320kg



Silent Type

Overall size (L*W*H)
1350x800x1100

Weight: 400kg

ENGINE SPECIFICATION

Lister Petter Diesel Engine

Technical Data

Engine Model	TR1
Emissions statement	--
Number of Cylinders	1
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Aspiration	Natural Aspiration
Bore×Stroke (mm×mm)	98.42x 101.6
Displacement (Liter)	0.773
Compression Ratio	15.5:1
Prime Power/Speed (kW/rpm)	6.7/1800
Standby Power/Speed (kW/rpm)	7.4/1800
Speed Governor	Mechanical
Cooling System	Air-cooled
Fuel Consumption at 100% Load (g/kWh)	241 (at 1800RPM)
Starter Motor	12 V
Alternator	12 V

Alternator SPECIFICATION

Stamford Alternator (Standard)

MPMC Alternator (Option)

Technical Data

Alternator Model	BCI 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	≤±1%
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)