



TECHNICAL DATA

DIESEL GENERATING SET

MPMC POWERTECH CORP.

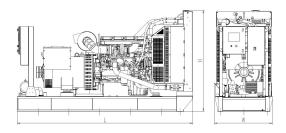
60HZ

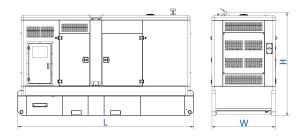


MDSS220S-2 / MDSS220-2

Features

- Compact structure with high-strength chassis;
- Easy operation and maintenance, Low cost;
- Excellent performance damping system;
- Compliance with international electrical safety standards of electrical system;
- · 6-8 hours base tank;
- High-performance maintenance-free batteries with isolation switch
- Tropical Radiator(DOOSAN Original);
- Top lifting, Forklift bottom hole design, easy to transport;
- Industrial muffler;
- Noise reduction structure, Low noise;
- · Convenient power output interface;
- IP56 (control system)
- · Customized design for user
- Structure optional: Open (MDSS220-2)
 Sound-proof (MDSS220S-2)





Dimension and Weight				
Generating set model	MDSS220S-2	MDSS220-2		
Length(L) (mm)	4000	3057		
Width(W) (mm)	1330	1045		
Height(H) (mm)	2175	1973		
Dry weight (k g)	2500	1970		
Tank capacity (L)	647	420		

Reference images, the actual shall prevail





Genset Technical Data	
Output frequency	60 HZ
Rated speed	1800 rpm
Prime power	200KW
Standby power	220 KW
Rated voltage	440 V
Phase	3
Noise dB(A) @7m Soundproof	69dB
Engine model	DP086LA
Alternator model	UCDI 274J
Fuel consumption of 100% load	56.0 Litres/h
Fuel consumption of 75% load	41.5Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%















Engine Specifications					
Engine model	DP086LA				
Engine manufacturer	DOOSAN (KOREA)	DOOSAN (KOREA)			
Number of cylinders	6				
Cylinder arrangement	In-line				
Cycle	Four stroke	Four stroke			
Aspiration	Turbo charged				
Bore x Stroke (mm x mm)	111x 139				
Displacement (Liter)	8.071				
Compression Ratio	16.4:1				
Prime power/speed (NET)	220KW /1800				
Standby power/speed (NET)	245KW /1800				
Speed governor	RSV				
Cooling system	Forced Water Cooling Cycle				
Steady speed droop (%)	≤5%				
Total lubrication system capacity (L)	15.5				
Coolant capacity (L)	14				
Starter motor	DC 24V				
Alternator	AC 24V				
Alternator Specifications					
Alternator model	UCI 274J				
Manufacturer	STAMFORD				
Rated output prime power	240 KW				
Efficiency (%)	92.6%				
Rated speed	1800 RPM				
Rated frequency	60 Hz				
Phase	3				
Rated voltage	440 V				
Exciter type	Self excitation, Brushless				
Power factor	0.8				
Voltage adjust range	≥5%				
Voltage regulation	≤±1%				
Insulation grade	Н				
Protection grade	IP23				
Xd DIR. AXIS SYNCHRONOUS	2.367				
X'd DIR. AXIS TRANSIENT	0.190				
X"d DIR. AXIS SUBTRANSIENT	0.075				
Xq QUAD. AXIS REACTANCE	1.633				
X"q QUAD. AXIS SUBTRANSIENT	0.331				
Optional					
Optional Alternator brand	Leroy Somer	MECC ALTE	MPMC		
Optional Alternator model	LSA 46.2 M5	ECO38-3SN/4	LYG274G		
Exciter type	Self-excited	Self-excited	Self-excited		













Control System

NSM-3110 (Standard)

All MPMC Gensets have a control cabinet (the Deepsea control module DSE3110 as standard) mounted on gensets with earthing protection.

Main Features

- · Manual and automatic mode
- · Parameter configuration via USB interface
- · Remote control automatic start/shutdown
- Optional ECU control
- · Optional CAN engines
- Optional speed sensor access
- Operating temperature: -30 $^{\circ}\mathrm{C}$ to 70 $^{\circ}\mathrm{C}$
- IP56 Rating
- · Back-lit icon LCD display
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC configurable
- 6 Digital inputs
- 4 Outputs (2 configurable on Magnetic Pick up/Alt., 4 configurable on CAN version)

The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current(Panel Meter)
- Engine run-time Hours
- Engine oil pressure (Panel Meter)
- Engine coolant temperature (Panel Meter)



Protecting Functions

- · Over frequency / under frequency
- Over voltage / under voltage
- Over speed /under speed
- Over current
- Emergency stop
- · Low oil pressure
- High water temperature
- Failure to start/Failure to stop
- Battery charger failure
- Comprehensive shutdown or warning on fault condition













Control System

NSM-7320 (Optional)

NSM-7320 is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module(AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

Main Features

- · AMF and ATS and communication and expansion function
- Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).
- Manual, Automatic, Test and remote control mode selectable.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections and multiple parameters display.
- Includes 12 inputs and 8 outputs. 8 inputs are configurable and 6 outputs are configurable.
- Can be programmed using the front panel or by using the PC software.
- Support twelve languages. The language was edited by customer.
- Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.
- The module can be pre-set for four operating modes and protecting parameters.
- Add DSE890 module, internet network monitoring can be realized
- The firmware can be updated automatically, so customer can have the latest version.



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime













Optional

Engine

- Water Jacket Preheater
- Fuel-water separator
- Oil pump
- Oil preheate
- Battery preheater

Alternator

- PMG excitation
- Space heater
- Winding Temperature Measuring

Generator Set

- Tools with the machine
- •Coolant (-30°C)

Control System

- AMF function
- ATS control cabinet
- •Double-frequency and double voltage
- Single phase
- ABB MCCB

Fuel System

- 12 / 24 hour base tank (single wall)
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
- Fuel level indicate

Canopy

- Hired type
- Economy Oil heater
- Traile

Contact Us

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MPMC reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice.

Please contact the salesman before ordering.

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