



METS ENERGY S A L

| Model | MP900-L | | NA | | | |
|---------------------------|-------------------------|----------|-------------------------|----|-------------------------|----|
| Frequency/Speed - Voltage | 50HZ/1500 RPM- 230/400V | | 60HZ/1800 RPM- 230/400V | | 60HZ/1800 RPM- 277/480V | |
| Prime Power | 911 KVA | 728.8 KW | NA | NA | NA | NA |
| Standby Power | 1002.1 KVA | 801 KW | NA | NA | NA | NA |



Image for illustration purposes only.

Features

| | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine | Perkins ,4008TAG1A , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271 |
| Alternator | LeRoySomer ,LSA49.1 L10 , Made in France, complying to the norms: IEC 60034, NEMA MG 1.22, ISO 8528/3, CSA, UL 1446, UL 1004B |
| Control Panel | Deep sea, M-DCM-417(7320) ,Made in UK, complying to the norms: comply to the norms BS EN 61000, BS EN 60950, BS EN 60068 |
| Base Frame | Black steel with Anti-vibration pads, Built in fuel tank |
| Sound Proof Canopy | Modular SPC, Powder Coated, Extremely Durable, Designed to Reduce Sound Level with Maximum Service Accessibility and Minimum Foot Prints |
| Worldwide Support | Mets Energy Products are distributed through its PowerMets International Network For more information kindly check our website www.metsenergy.com |

Rating Definitions and Conditions

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prime Rating | The power available for an unlimited hour usage with an average load factor of 80% of the published prime power over each 24 hours period. A 10 % overload is available for 1Hr every 12 hours. |
| Standby Rating | The power limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24-hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power. KVA Rating @ 0.8 P.F |

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Rev0_MP900-L_150401



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| Engine Perkins, 4008TAG1A, 4 Stroke Cycle, Diesel | | | |
|----------------------------------------------------------|-------------------------------------------------------------------------|------------------------|----------------------|
| Structure | Number of Cylinders | 8 | |
| | Engine Build | In line | |
| | Bore | 160 mm | |
| | Stroke | 190 mm | |
| | Displacement | 30.561 L | |
| | Compression Ratio | 13.6 /1 | |
| | Aspiration | Turbocharged | |
| | Cooling | A /A | |
| Fuel | Fuel Tank | 1500 rpm | 1800 rpm |
| | | NA | NA |
| | Fuel System | Direct injection | |
| | Fuel Recommended | N°2 Diesel | |
| | Fuel System Make (ECM) | - | |
| | | 1500 rpm | 1800 rpm |
| | Delivery Flow Rate (l/hr) | | |
| | Fuel Consumption | | |
| | 100% Load (g/kWh-L/hr) | 206 (195) | NA |
| | 75% Load (g/kWh-L/hr) | 201 (143) | NA |
| 50% Load (g/kWh-L/hr) | 207 (98) | NA | |
| Cooling system | Engine Coolant Capacity | 149 L | |
| | Air Flow-Radiator | 20800 l/s | NA |
| | radiator with 50 degree ambient capability | | |
| | Cooling Package & Air Cleaner Kit Thermostatically-controlled system | | |
| Air Inlet | Air Intake Engine(Clean Filter/Dirty) | 1.25/3.73 kPa | |
| Exhaust System | Exhaust Gas Temperature (Prime) | 438 °C | NA |
| | Exhaust Gas Flow (Prime) | 3333.3 l/s | NA |
| | Maximum Exhaust System Back Pressure | 7.95 kPa | NA |
| | Muffler | residential (20→25 dB) | industrial(15→25 dB) |
| | Stainless Steel exhaust flex-fittings | | |
| DC System-Starting/Charging | Cranking Battery Voltage | 24 V | |
| | Battery Charging Alternator | 40 A | |
| | Dc Voltage Monitoring via control panel | | |
| Heat Rejection(prime) | Radiated Heat to Ambient (Prime) | 70 kW | NA |
| | Heat Rejection to Coolant (Prime) | 300 kW | NA |
| | Heat Rejection to Exhaust (Prime) | 606 kW | NA |
| | Heat Rejection to intercooler (prime) | 176 kW | NA |
| Lube System | Lubricating System Oil Capacity | 153 L | |
| Governor | Electronic | | |

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Alternator, LSA49.1 L10

| | | | |
|---------------------------------------------------|-------------------------------------------|-----------------------------------|-----------------|
| Structure | Insulation System | Class H | |
| | Winding Pitch | 2/3 to minimize harmonics effects | |
| | Number of Poles | 4 | |
| | Number of Bearings | Single bearing | |
| | Winding Leads | 12 | |
| | Power Factor | 0.8 | |
| | Over Speed Capability (% of Rated) | 2250 Rpm (150%) | |
| | Wave Form Distortion | no load < 4 % - on load < 4% | |
| | Telephone Interference | TIF < 50 | |
| | IP Rating (Protection) | IP23 | |
| AVR | A R E P or PMG | | |
| Synchronous, 3 phase, Brushless & Self ventilated | | | |
| | | 1500 rpm | 1800 rpm |
| Power Switching | 3-P Circuit Breaker, MCCB | 1600A | NA |
| Temperature | Temperature Rise | 125/40 °C | |
| Control & Voltage Regulator | Control System (Standard) | A R E P or PMG | |
| | Voltage Regulator (AVR) | R 448 | |
| | % Of Voltage Regulation | ± 0,5 % | |
| Motor Starting Capacity@30% | if voltage 230/400V | TBA | |
| Voltage Dip | if voltage 277/480V | TBA | |

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Standard Controller, M-DCM-417(7320)

| | | |
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| Control | <ul style="list-style-type: none"> Fuel tank monitoring Emergency Stop Pushbutton/ Alarm Acknowledge Engine Cool Down Timer Warm-up Timer Load Switching Timer Engine Cycle Crank |  |
| Indications | <ul style="list-style-type: none"> Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVA_r, kWh, kVAh, kVA_rh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm Acknowledge | |
| Warning & Shutdown Alarms | <ul style="list-style-type: none"> Generator Over/Under Voltage & Frequency Crank Disconnect (Failure to Start) Under/Over Speed Over Current Low oil pressure High Water Temperature Low Fuel Level Low Water Level | |
| Features | <ul style="list-style-type: none"> IP 65 (if ordered with gasket) Basic Scheduler 8-35 VDC Supply Digital Inputs(4)- Outputs(4 MPU/ 6 CAN) Event Log (5 shutdowns) | |

Optional Accessories

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternator | <ul style="list-style-type: none"> AVR (3 phase Sensing) Reactive Droop Winding Temperature Detectors Anti- Condensation Heaters Excitation with auxiliary exciter (PMG) |
| Power Switching | <ul style="list-style-type: none"> 4-P Circuit Breaker Special Brands (ABB- MG- Siemens...) Motorized Operation Shunt Trip Under Voltage Trip UVT Residual Current Protection Ground Fault Protection Earthing Kit Surge Arrestor |

Optional Accessories (continues)

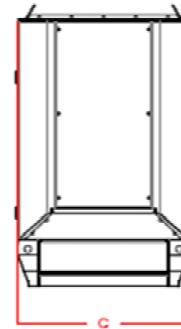
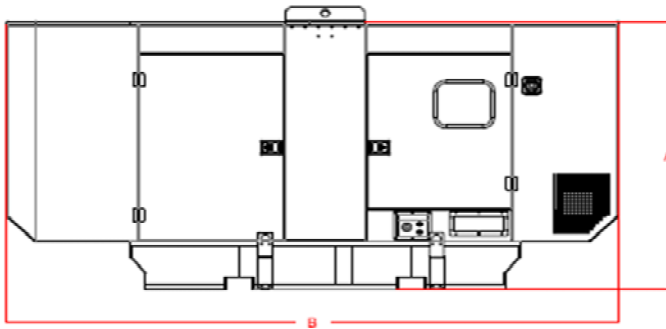
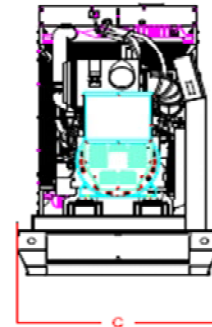
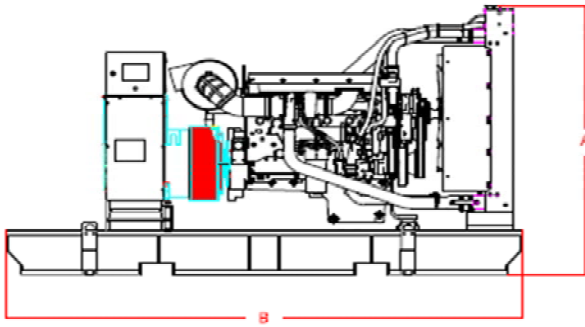
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|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Engine | Fuel | Micro-Diesel Filter for Micro-Particles Filtration |
| | | Automatic Fuel Refilling System |
| | | Fuel Water Separator (2000/40) |
| | | Mechanical Fuel Level Kit |
| | | Oversize Fuel Tank Upon Custom Requirements |
| | | Fuel Tanks-Pipes Heater |
| | Air Inlet | Optional Built in fuel tank 180 L operation full load (Height will be increased by 100 mm and weight by 20 kg) |
| | | Sy-klone Air Cleaner Installed @ Air Intake System |
| | Exhaust | Muffler: Critical (25→30 dB) Hospital (35→40 dB) |
| | | Elbow, Flanges, Expanders & Y Adaptors |
| Cooling / Heating | Radiator with 35 °C or 60 °C Ambient Capability | |
| | Jacket Water Heater | |
| Lube | Manual Sump Drain Pump | |
| | Semi-Rotator Hand Pump | |
| DC System - Starting/Changing | Mains Battery Charger 24 V DC-5A | |
| | Battery Charger 10A-20A on Request | |
| | Automatic Battery Charger on Request | |
| | Battery Disconnect Switch | |
| | DC/AC Current Monitoring (Ammeter) | |
| Control Panel | Oversize Battery | |
| | DSE 7310/7320/7410/7420-More Inputs & Outputs-Advanced Communications Features; | |
| | DSE 8610/8710/8810- Load Share Module; | |
| | Digital & Analogues Inputs Module DSE 2130 (for 7000 Series & Above); | |
| | Analogue Inputs advanced Module DSE 2131-2133(for 7410 &Above); | |
| | Digital relay Outputs Module DSE 2157 (for 7000 Series &Above); | |
| | Analogue Outputs Module DSE 2152 (for 7410 & Above); | |
| | Local & Remote enunciator Module DSE 2548 (for 7000 Series & Above); | |
| | Display Modules DSE 2510/2520 (with 7310-7320); | |
| | Remote Monitoring via: Web Interface (All Series), GSM (for 7000 Series & Above), RS485 (for Dry Contacts Alarm Indication for Customer Use | |
| | Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above); | |
| | Voltage Adjust Potentiometer; | |
| | Speed Adjust Potentiometer; | |



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Dimensions & Weights

| | Length (mm) | Width (mm) | "C" | Height (mm) | Weight Dry |
|---------------|-------------|------------|-----|-------------|------------|
| Open set (NB) | 3850 | 1320 | | 2277 | 6000 |
| SPC Type S | 5500 | 2100 | | 2500 | 7900 |



Drawings for illustration purposes only.

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