

| Model | <u>GD200-W</u> | | <u>GD225@6-W</u> | | | |
|---------------------------|----------------------------|--------|----------------------------|--------|----------------------------|----------|
| Frequency/Speed - Voltage | 50HZ/1500 RPM- 230/400V | | 60HZ/1800 RPM- 277/480V | | 60HZ/1800 RPM- 230/400V | |
| Prime Power | 200 KVA | 160 KW | 225 KVA | 180 KW | 215 KVA | 172 KW |
| Standby Power | 220 KVA | 176 KW | 247.5 KVA | 198 KW | 236.5 KVA | 189.2 KW |



Image for illustration purposes only.

Features

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|---------------------------|--|
| Engine | Doosan, P086 T1, Made in Korea, complying to the norms: ISO 3046, ISO 8528 BS 5514 and DIN 6271 |
| Alternator | WEG, AG10-250SI10AI, Made in Brazil, complying to the norms IEC 60034 - NBR 5117 - NEMA MG1 - VDE530 - ISO8528 - CSA |
| Control Panel | Deep sea, M-DCM-317B, Made in UK, complying 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

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|-----------------------------|--|
| 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 | |

Due to continuous product development, we reserve the right to change specifications at any time without prior notice.

Rev0_GD200-W/225@6-W_150214


Engine Doosan, P086 T1, 4 Stroke Cycle, Diesel

| | | | |
|------------------------------------|--|---|---|
| Structure | Number of Cylinders | 6 | |
| | Engine Build | In line | |
| | Bore | 111 | |
| | Stroke | 139 | |
| | Displacement | 8.071 L | |
| | Compression Ratio | 16.4 /1 | |
| | Aspiration | turbocharged | |
| | Cooling | A/A | |
| Fuel | Fuel Tank | 1500 rpm Built in fuel tank 252L for 6 hours operation @ full load | 1800 rpm Built in fuel tank 252L for 6 hours operation @ full load |
| | Fuel System | Direct injection | |
| | Fuel Recommended | N°2 Diesel | |
| | Fuel System Make (ECM) | - | |
| | | 1500 rpm | 1800 rpm |
| | Delivery Flow Rate (l/hr) | 230 | 230 |
| | Fuel Consumption | | |
| | 100% Load (g/kWh-L/hr) | TBA(43.1) | TBA(50.6) |
| 75% Load (g/kWh-L/hr) | TBA(31.7) | TBA(37.7) | |
| 50% Load (g/kWh-L/hr) | TBA(25.1) | TBA(25.1) | |
| Cooling system | Engine Coolant Capacity | 44.4 L | |
| | Air Flow-Radiator | 31667.7 L/s | 3733.3 L/s |
| | radiator with 50 degree ambient Cooling Package & Air Cleaner Kit Thermostatically-controlled system | | |
| Air Inlet | Air Intake Engine(Clean Filter/Dirty) | 2.16/6.23 kPa | |
| Exhaust System | Exhaust Gas Temperature (Prime) | TBA | 509 °C |
| | Exhaust Gas Flow (Prime) | TBA | 681.7 l/s |
| | Maximum Exhaust System Back Pressure | 5.9 kPa | 5.9 kPa |
| | Muffler | residential (20→25 dB) | industrial(15→25 dB) |
| DC System-Starting/Charging | Cranking Battery Voltage | 24 V | |
| | Battery Charging Alternator | 45 A | |
| | Dc Voltage Monitoring via control panel | | |
| Heat Rejection | Radiated Heat to Ambient (Prime) | 15.4 kW | 18.1 kW |
| | Heat Rejection to Coolant (Prime) | 66 kW | 77.5 kW |
| | Heat Rejection to Exhaust (Prime) | 151.9 kW | 178.3 kW |
| | Heat Rejection to After Cooler (prime) | 35.2 kW | 41.3 kW |
| Lube System | Lubricating System Oil Capacity | 15.5 L | |
| Governor | Electronic | | |

Alternator Weg,AG10-250SI10AI

| | | | |
|---|------------------------------------|--|-----------------|
| 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 | 2250 Rpm (125%) | |
| | Wave Form Distortion | THD(Total Harmonic Distortion)@ No load < 5.0% | |
| | Telephone Interference | TIF < 3% | |
| | IP Rating (Protection) | IP23 | |
| | AVR | Excitation with auxiliary coil | |
| Synchronous, 3 phase, Brushless & Self ventilated | | | |
| | | 1500 rpm | 1800 rpm |
| Power Switching | 3-P Circuit Breaker, MCCB | 300A | 350A |
| Temperature | Temperature Rise | 125/40 °C | |
| Control & Voltage Regulator | Control System (Standard) | Excitation with auxiliary coil | |
| | Voltage Regulator (AVR) | GRT7-TH4E(5A E9) | |
| | % Of Voltage Regulation | ± 0.5 % | |
| Motor Starting Capacity@30% | if voltage 230/400V | TBA | |
| Voltage Dip | if voltage 277/480V | TBA | |

Standard Controller, M-DCM-317

| | | |
|--------------------------------------|---|---|
| Control | <ul style="list-style-type: none"> Auto/Start/Stop Control 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, kVAr, kWh, kVAh, kVArh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level 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

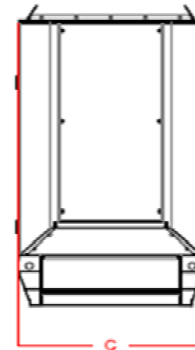
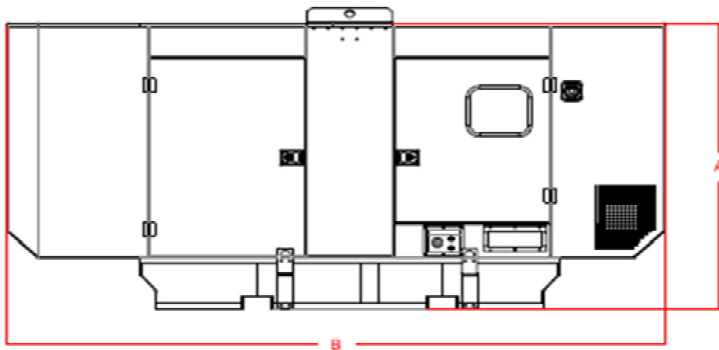
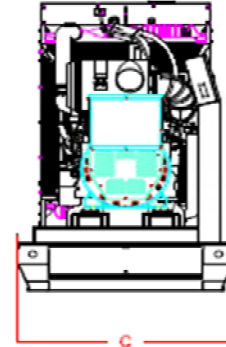
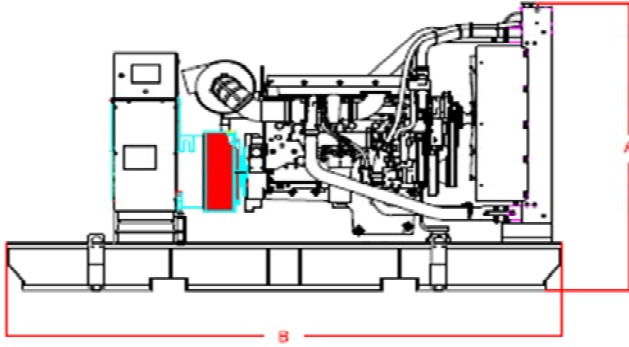
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|------------------------|--|
| Alternator | <ul style="list-style-type: none"> AVR (3 phase Sensing) Reactive Droop Winding Temperature Detectors Anti- Condensation Heaters Excitation with auxiliary exciter (PMG) |
| Power Switching | <ul style="list-style-type: 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 | <ul style="list-style-type: none"> Micro-Diesel Filter for Micro-Particles Filtration Automatic Fuel Refilling System Fuel Water Separat (2000/10) Mechanical Fuel Level Kit Oversize Fuel Tank Upon Custom Requirements Fuel Tanks-Pipes Heater |
| | Air Inlet | Sy-klone Air Cleaner Installed @ Air Intake System |
| | Exhaust | <ul style="list-style-type: none"> Muffler: Critical (25→30 dB) Hospital (35→40 dB) Elbow, Flanges, Expanders & Y Adaptors |
| | Cooling / Heating | <ul style="list-style-type: none"> Radiator with 35 °C or 60 °C Ambient Capability Jacket Water Heater |
| | Lube | <ul style="list-style-type: none"> Manual Sump Drain Pump Semi-Rotator Hand Pump |
| | DC System - Starting/Changing | <ul style="list-style-type: none"> 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) Oversize Battery |
| | Control Panel | <ul style="list-style-type: none"> 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; |

Dimensions & Weights

| | Length (mm) | Width (mm) | Height (mm) "A" | Weight Dry |
|----------------------|-------------|------------|--------------------|------------|
| Open set (NB) | 2740 | 940 | 1550 | 1810 |
| SPC Type S | 4280 | 1200 | 2220 | TBA |



Drawings for illustration purposes only.

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