

Model	<u><a href="#">GD200-W</a></u>		<u><a href="#">GD230@6-2-M</a></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	230 KVA	184 KW	230 KVA	184 KW
Standby Power	220 KVA	176 KW	253 KVA	202.4 KW	253 KVA	202.4 KW



Image for illustration purposes only.

## Features

<b>Engine</b>	Doosan, P086 T1, Made in korea, complying to the norms: ISO 3046,ISO 8528 BS 5514 and DIN 6271
<b>Alternator</b>	Meccalte ECO38-3SN/4, Made in UK, complying to the norms IEC 60034 - NBR 5117 - NEMA MG1 - VDE530 - ISO8528 - CSA
<b>Control Panel</b>	Deep sea, M-DCM-317B ,Made in UK, complying to the norms BS EN 61000, BS EN 60950, BS EN 60068
<b>Base Frame</b>	Black steel with Anti-vibration pads, Built in fuel tank
<b>Sound Proof Canopy</b>	Modular SPC, Powder Coated, Extremely Durable, Designed to Reduce Sound Level with Maximum Service Accessibility and Minimum Foot Prints
<b>Worldwide Support</b>	Mets Energy Products are distributed through its PowerMets International Network For more information kindly check our website <a href="http://www.metsenergy.com">www.metsenergy.com</a>

## Rating Definitions and Conditions

<b>Prime Rating</b>	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.
<b>Standby Rating</b>	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.
<b>KVA Rating @ 0.8 P.F</b>	

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

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### Engine Doosan, P086 T1, 4 Stroke Cycle, Diesel

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


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**Alternator Weg,ECO38-3SN/4**

<b>Structure</b>	<b>Insulation System</b>	Class H	
	<b>Winding Pitch</b>	2/3 to minimize harmonics effects	
	<b>Number of Poles</b>	4	
	<b>Number of Bearings</b>	Single bearing	
	<b>Winding Leads</b>	12	
	<b>Power Factor</b>	0.8	
	<b>Over Speed Capability (% of</b>	2250 Rpm (150%)	
	<b>Wave Form Distortion</b>	2.8/2.9% @ full Load , 2.6/2.8 % @ no Load	
	<b>Telephone Interference</b>	THF< 2%	
	<b>IP Rating (Protection)</b>	IP21(other Protection on request)	
<b>AVR</b>	DSR (1-phase sensing/ additional equipment for 3-phase sensing )		
	Synchronous, 3 phase, Brushless & Self ventilated		
		<b>1500 rpm</b>	<b>1800 rpm</b>
<b>Power Switching</b>	3-P Circuit Breaker, MCCB	300A	350A
<b>Temperature</b>	<b>Temperature Rise</b>	125/40 °C	
<b>Control &amp; Voltage Regulator</b>	<b>Control System (Standard)</b>	MAUX excitation	
	<b>Voltage Regulator (AVR)</b>	DSR (1-phase sensing/ additional equipment for 3-phase sensing )	
	<b>% Of Voltage Regulation</b>	± 1%	
<b>Motor Starting Capacity@30%</b>	if voltage 230/400V	TBA	
<b>Voltage Dip</b>	if voltage 277/480V	TBA	

**Standard Controller, M-DCM-317**

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

**Optional Accessories**

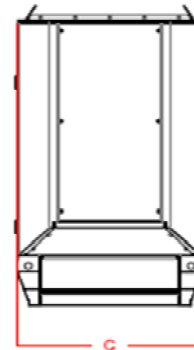
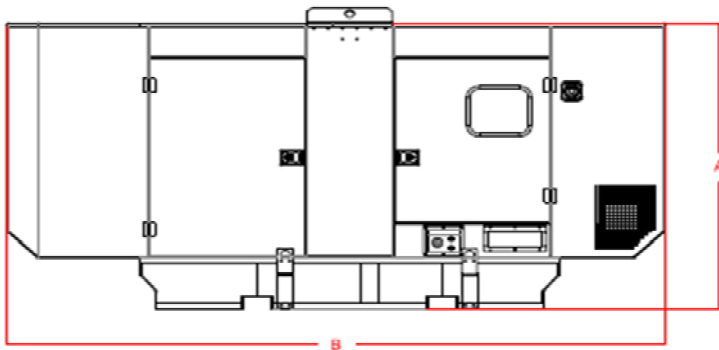
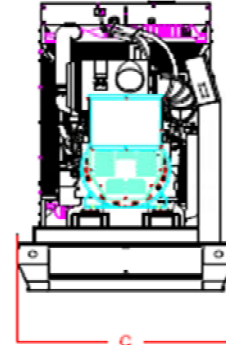
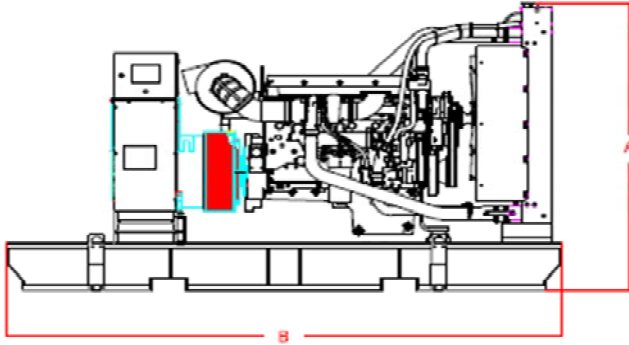
<b>Alternator</b>	<ul style="list-style-type: none"> <li>AVR (3 phase Sensing)</li> <li>Reactive Droop</li> <li>Winding Temperature Detectors</li> <li>Anti- Condensation Heaters</li> <li>Excitation with auxiliary exciter (PMG)</li> </ul>
<b>Power Switching</b>	<ul style="list-style-type: none"> <li>4-P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

**Optional Accessories** (continues)

<b>Engine</b>	<b>Fuel</b>	<ul style="list-style-type: none"> <li>Micro-Diesel Filter for Micro-Particles Filtration</li> <li>Automatic Fuel Refilling System</li> <li>Fuel Water Separat <b>(2000/10)</b></li> <li>Mechanical Fuel Level Kit</li> <li>Oversize Fuel Tank Upon Custom Requirements</li> <li>Fuel Tanks-Pipes Heater</li> </ul>
	<b>Air Inlet</b>	Sy-klone Air Cleaner Installed @ Air Intake System
	<b>Exhaust</b>	<ul style="list-style-type: none"> <li>Muffler: Critical (25→30 dB) Hospital (35→40 dB)</li> <li>Elbow, Flanges, Expanders &amp; Y Adaptors</li> </ul>
	<b>Cooling / Heating</b>	<ul style="list-style-type: none"> <li>Radiator with 35 °C or 60 °C Ambient Capability</li> <li>Jacket Water Heater</li> </ul>
	<b>Lube</b>	<ul style="list-style-type: none"> <li>Manual Sump Drain Pump</li> <li>Semi-Rotator Hand Pump</li> </ul>
	<b>DC System - Starting/Changing</b>	<ul style="list-style-type: none"> <li>Mains Battery Charger 24 V DC-5A</li> <li>Battery Charger 10A-20A on Request</li> <li>Automatic Battery Charger on Request</li> <li>Battery Disconnect Switch</li> <li>DC/AC Current Monitoring (Ammeter)</li> <li>Oversize Battery</li> </ul>
	<b>Control Panel</b>	<ul style="list-style-type: none"> <li>DSE 7310/7320/7410/7420-More Inputs &amp; Outputs-Advanced Communications Features;</li> <li>DSE 8610/8710/8810- Load Share Module;</li> <li>Digital &amp; Analogues Inputs Module DSE 2130 (for 7000 Series &amp; Above);</li> <li>Analogue Inputs advanced Module DSE 2131-2133(for 7410 &amp;Above);</li> <li>Digital relay Outputs Module DSE 2157 (for 7000 Series &amp;Above);</li> <li>Analogue Outputs Module DSE 2152 (for 7410 &amp; Above);</li> <li>Local &amp; Remote enunciator Module DSE 2548 (for 7000 Series &amp; Above);</li> <li>Display Modules DSE 2510/2520 (with 7310-7320);</li> <li>Remote Monitoring via: Web Interface (All Series), GSM (for 7000 Series &amp; Above), RS485 (for Dry Contacts Alarm Indication for Customer Use</li> <li>Audible Alarm (Option for 6010/20; Standard for 7000 Series &amp; Above);</li> <li>Voltage Adjust Potentiometer;</li> <li>Speed Adjust Potentiometer;</li> </ul>

### 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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