



Model	GM180-W		NA			
Frequency/Speed - Voltage	50HZ/1500 RPM-230/400V		60HZ/1800 RPM- 277/480V		60HZ/1800 RPM- 230/400V	
Prime Power	180 KVA	144 KW	NA	NA	NA	NA
Standby Power	198 KVA	158.4 KW	NA	NA	NA	NA



Image for illustration purposes only.

	Features
Engine	MAXXFORCE, 7.2P-180, complying to the norms: ISO 3046,ISO 8528 BS 5514 and DIN 6271
Alternator	WEG, AG10-250SI10AI, 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

## 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. 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





Enį	gine MAXXFORCE, 7.2P-180, 4 St	troke Cycle, Diesel	
	Number of Cylinders	6	
	Engine Build	In line	
	Bore	105 mm	
	Stroke	137 mm	
Structure	Displacement	7.12 L	
	Compression Ratio	16.8 /1	
	Aspiration	Turbocharged	
	Cooling	Aftercooled	
		1500 rpm	1800 rpm
	Fuel Tank	Enclosure :Built in fuel tank 447 L for 12 hours operation @ full load	тва
	Fuel System	Direct inje	ection
	Fuel Recommended	N°2 Die	
Fuel	Fuel System Make (ECM)	-	
	, , ,	1500 rpm	1800 rpm
	Delivery Flow Rate (Ir/hr)	TBA	NA
	Fuel Consumption		
	100% Load (g/kWh-L/hr)	202.5 (38.5 )	NA
	75% Load (g/kWh-L/hr)	203 (29)	NA
	50% Load (g/kWh-L/hr)	210 (19.5)	NA
	Engine Coolant Capacity	25L	
	Air Flow-Radiator	6231 l/s	NA
Cooling system	radiator with 50 degree ambient	•	
<b>5</b> ,	Cooling Package & Air Cleaner Kit		
	Thermostatically-controled system		
Air Inlet	Air Intake Engine(Clean Filter/Dirty)	230 / 600 mm H2O	
	Exhaust Gas Temperature (Prime)	650 °C	NA
	Exhaust Gas Flow (Prime)	800 kg/h	NA
	Maximum Exhaust System Back	_	
Exhaust System	Pressure	75 mmHg	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	TBA	
	Dc Voltage Monitoring via control pane		
	Radiated Heat to Ambient (Prime)	16.07 kW	NA
	Heat Rejection to Coolant (Prime)	78 kW	NA
Heat Rejection(prime)	Heat Rejection to Exhaust (Prime)	127.9 kW	NA
	Heat Rejection to intercooler (prime)	32.9 kW	NA
Lube System	Lubricating System Oil Capacity	19.8	
Governor	Mechanical	13.0	-
COTCHIO	Micchaillear		





Structure



Series

## Alternator Weg, AG10-250SI10AI

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	NA
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 %	
	if voltage	e 230/400V TBA	
<b>Motor Starting Capa</b>	city@30%		
Valtage Din	if valtage	- 277/400V TDA	

Voltage Dip if voltage 277/480V TBA





	Standard Controller, M-DCM-317
Control	Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Acknowledge Engine Cool Down Timer Warm-up Timer Load Switching Timer Engine Cycle Crank
Indications	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 Monitoring Battery Voltage Monitoring (DC) Alarm Acknowledge
Warning & Shutdown Alarms	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	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	AVR (3 phase Sensing) Reactive Droop Winding Temperature Detectors Anti- Condensation Heaters Excitation with auxiliary exciter (PMG)
Power Switching	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





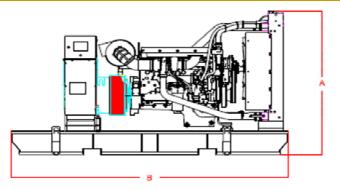
		(continues)	
	Optiona	I Accessories (continues)	
		Micro-Diesel Filter for Micro-Particles Filtration	
		Automatic Fuel Refilling System	
	Fuel	Fuel Water Separa (2000/40)	
		Mechanical Fuel Level Kit	
		Oversize Fuel Tank Upon Custom Requirements	
		Fuel Tanks-Pipes Heater	
	Air Inlet	Sy-klone Air Cleaner Installed @ Air Intake System	
	Exhaust	Muffler: Critical (25 $\rightarrow$ 30 dB) Hospital (35 $\rightarrow$ 40 dB)	
	Exilaust	Elbow, Flanges, Expanders & Y Adaptors	
Engine	Cooling / Heating	Radiator with 35 °C or 60 °C Ambient Capability	
	Cooming / Heating	Jacket Water Heater	
	Lube	Manual Sump Drain Pump	
	Lube	Semi-Rotator Hand Pump	
		Mains Battery Charger 24 V DC-5A	
		Battery Charger 10A-20A on Request	
	DC System -	Automatic Battery Charger on Request	
	Starting/Changing	Battery Disconnector Switch	
		DC/AC Current Monitoring (Ammeter)	
		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);		
Control Panel	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		
	Dry Contacts Alarm Indication for Customer Use		
	Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above);		
	Voltage Adjust Potentiometer;		
	Speed Adjust Potentiometer;		

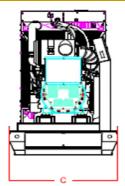


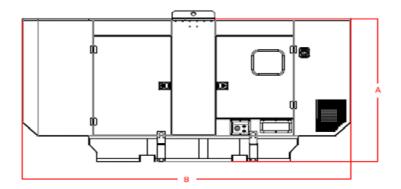


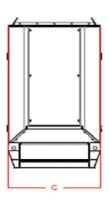
## **Dimensions & Weights**

	Length (mm)	Width (mm)	neight (mm)	Weight Dry
Open set (NB)	2720	1200	1730	1480
SPC Type S	4280	1210	2136	2051









Drawings for illustration purposes only.

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