

Model	MP200-M		MP230@6-M			
Frequency/Speed - Voltage	50HZ/1500 RPM- 230/400V		60HZ/1800 RPM- 230/400V		60HZ/1800 RPM- 277/480V	
Prime Power	200 KVA 160 KW		217 KVA	173.6 KW	230 KVA	185 KW
Standby Power	220 KVA 176 KW		238.7 KVA	190.9 KW	253 KVA	202.4 KW



Image for illustration purposes only.

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Engine	Perkins ,1306A-E87TAG3 , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271
Alternator	Meccalte, ECO38 -2S/4 , Made in UK, complying to the following norms:CEE/ CEI2-3/ EN60034-1/ IEC34-1/ VDE/ BS/ CAN/ CSA
Control Panel	Deep sea, M-DCM-317B ,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
Worldwide Support	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



	Engine Perkins, 1306A-E87TAG3,	4 Stroke Cycle, Die	esel	
	Number of Cylinders	6		
	Engine Build	In line		
	Bore	116.6 mm		
	Stroke	135.9 mm		
Structure	Displacement	8.7 L		
	Compression Ratio	16.9 /1		
	Aspiration	Turbocharged		
	Cooling	A/A		
		1500 rpm	1800 rpm	
	Fuel Tank	Built in fuel tank	Built in fuel tank	
		447 for 10 hours	447 L for 9 hours	
		operation @ full	operation @ full	
		load	load	
	Fuel System	Direc	ct injection	
_	Fuel Recommended		2 Diesel	
Fuel	Fuel System Make (ECM)		-	
	(2011)	1500 rpm	1800 rpm	
	Delivery Flow Rate (Ir/hr)	TBA	TBA	
	Fuel Consumption	ECM 1300		
	100% Load (g/kWh-L/hr)	207 (45.2)	211 (51.5)	
	75% Load (g/kWh-L/hr)	213 (35)	211(38.5)	
	50% Load (g/kWh-L/hr)	219 (24)	218 (26.5)	
	Engine Coolant Capacity		37.2 L	
	Air Flow-Radiator	6250 l/s	8000 l/s	
Cooling system	radiator with 50 degree ambient capability	•	3000 1/3	
cooming system	Cooling Package & Air Cleaner Kit			
	Thermostatically-controled system			
Air Inlet	Air Intake Engine(Clean Filter/Dirty)	2.5/ 6.22 Kpa		
All fillet	Exhaust Gas Temperature (Prime)	TBA	NA	
	Exhaust Gas Flow (Prime)	TBA	NA	
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Exhaust System	Maximum Exhaust System Back Pressure	10.7 kPa	10.7 kPa	
	Muffler residential (20→25 dB) in	dustrial(15→25 dB)		
	Stainless Steel exhaust flex-fittings	aasta.(15 / 15 a5)		
	Cranking Battery Voltage		24 V	
OC System-Starting/Charging	Battery Charging Alternator	45 A		
be system-starting, charging	Dc Voltage Monitoring via control panel	1 0 //		
Heat Rejection(prime)	Radiated Heat to Ambient (Prime)	34 kW	37 kW	
	Heat Rejection to Coolant (Prime)	88 kW	98kW	
	Heat Rejection to Exhaust (Prime)	103 kW	116 kW	
	Heat Rejection to intercooler (prime)	27 kW	30 kW	
.ube System	Lubricating System Oil Capacity		26.4 L	
Governor	Mechanical		40.7 L	
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Structure

Alternator Meccalte, ECO38 -2S/4

Insulation System Class H

Winding Pitch 2/3 to minimize harmonics effects

Number of Poles

Number of Bearings Single bearing

Winding Leads 12 Power Factor 0.8

Over Speed Capability (% of 2250 Rpm (150%)

Wave Form Distortion 2.3/2 % @ full Load, 2.6/2.6% @ no Load

Telephone Interference THF< 2%

IP Rating (Protection) IP21(other Protection on request)

AVR DSR (1-phase sensing/ additional equipment for 3-phase sensing)

Synchronous, 3 phase, Brushless & Self ventilated

		1500 rpm	1800 rpm	
Power Switching	3-P Circuit Breaker, мссв	300A	350A	
Temperature	Temperature Rise	emperature Rise 125/40 °C		
Control & Voltage Regulator	Control System (Standard)	MAUX excitation		
	Voltage Regulator (AVR)	(AVR) DSR (1-phase sensing/ additional equipment for 3-phase ser		
	% Of Voltage Regulation	± 1.0 %		
	if voltage 2	230/400V TBA		
Motor Starting Capa	city@30%			

Motor Starting Capacity@30%

Voltage Dip if voltage 277/480V TBA



	Standard Controller, M-DCM-317D(CAN)
Control	Fuel tank monitoring 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

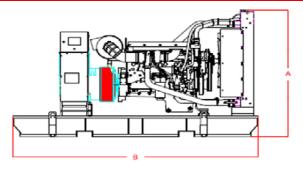


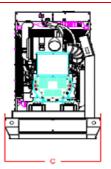
	Op	tional Accessories (continues)		
	Fuel	Micro-Diesel Filter for Micro-Particles Filtration Automatic Fuel Refilling System Fuel Water Separator (2000/10) Mechanical Fuel Level Kit Oversize Fuel Tank Upon Custom Requirements Fuel Tanks-Pipes Heater		
	Air Inlet	Sy-klone Air Cleaner Installed @ Air Intake System		
	Exhaust	Muffler: Critical (25→30 dB) Hospital (35→40 dB) Elbow, Flanges, Expanders & Y Adaptors		
Engine	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 Disconnector Switch DC/AC Current Monitoring (Ammeter) Oversize Battery		
Control Panel	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 7000 Dry Contacts Alarm Indication for Customer Use Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above); Voltage Adjust Potentiometer; Speed Adjust Potentiometer;			

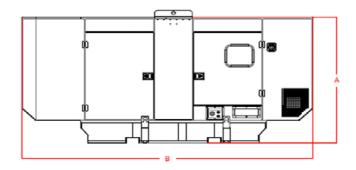


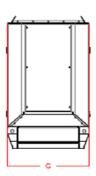
Dimensions & Weights

	Length (mm)	Width (mm)	"C" Height (mm)	Weight Dry
Open set (NB)	2720	1210	1794	1852
SPC Type S	4280	1210	2136	2675









Drawings for illustration purposes only.

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