

Model	MP2-180-L		MP2-200@6-S			
Frequency/Speed - Voltage	50HZ/1500 RPM- 230/400V		60HZ/1800 RPM- 230/400V		60HZ/1800 RPM- 277/480V	
Prime Power	180 KVA 144 KW		198 KVA	158.4 KW	200 KVA	160 KW
Standby Power	198 KVA	158.4 KW	217.8 KVA	174.24 KW	220 KVA	176 KW



Image for illustration purposes only.

	Features
Engine	Perkins ,1106A-70TAG3 , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271
Alternator	LeRoySomer ,LSA46.2 M3 , 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-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
	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.
	VVA Pating @ 0.9.P.E

KVA Rating @ 0.8 P.F



	Engine Perkins, 1106A-70TAG3, 4	Stroke Cycle, Diese	I
	Number of Cylinders	6	
	Engine Build	In line	
	Bore	105 mm	
Structure	Stroke	135 mm	
	Displacement	7.0 L	
	Compression Ratio	16.0:1	
	Aspiration	Turbocharged	
	Cooling	A/A	
		1500 rpm	1800 rpm
	Fuel Tank	Built in fuel tank	Built in fuel
		TBA for	tank TBA L for
		TBAhours	TBA hours
		operation @ full load	operation @ full load
	Fuel System	Direct in	
	Fuel Recommended	N°2 D	-
uel	Fuel System Make (ECM)	-	
		1500 rpm	1800 rpm
	Delivery Flow Rate (Ir/hr)	ТВА	TBA
	Fuel Consumption		
	100% Load (g/kWh-L/hr)	TBA (40.2)	TBA
	75% Load (g/kWh-L/hr)	TBA (30.9)	TBA
	50% Load (g/kWh-L/hr)	TBA (19.7)	TBA
	Engine Coolant Capacity	27	L
	Air Flow-Radiator	TBA	TBA
Cooling system	radiator with 50 degree ambient capabili	ty	
	Cooling Package & Air Cleaner Kit		
	Thermostatically-controled system		
Air Inlet	Air Intake Engine(Clean Filter/Dirty)	ТВА	
	Exhaust Gas Temperature (Prime)	TBA	TBA
	Exhaust Gas Flow (Prime)	TBA	TBA
Exhaust System	Maximum Exhaust System Back Pressur	e 6 kPa	6 kPa
	Muffler residential (20→25 dB)	industrial(15→25 dB)	
	Stainless Steel exhaust flex-fittings		
DC System-Starting/Charging	Cranking Battery Voltage	12 '	V
	Battery Charging Alternator	85	Α
	Dc Voltage Monitoring via control panel		
	Radiated Heat to Ambient (Prime)	TBA	TBA
Jost Paiastian/prima	Heat Rejection to Coolant (Prime)	TBA	TBA
Heat Rejection(prime)	Heat Rejection to Exhaust (Prime)	TBA	TBA
	Heat Rejection to intercooler (prime)	TBA	TBA
Lube System	Lubricating System Oil Capacity	16.	5 L
Governor	Mechanical		



Alternator, LSA46	\sim 1V	/151

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

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

Wave Form Distortion no load < 3% - on load < 2%

Telephone Interference TIF< 50 IP Rating (Protection) IP23

AVR SHUNT (12 wire) Synchronous, 3 phase, Brushless & Self ventilated

			1500 rpm	1800 rpm
Power Switching	3-P Circuit B	3-P Circuit Breaker, мссв		300A
Temperature	Temperature Rise		125/40 °C	
Control & Voltage	Control Syst	em (Standard)	SHUNT	(12 wire)
Regulator	Voltage Regulator (AVR)		R 250	
	% Of Voltage Regulation		± 0,	,5 %
Motor Starting Capacity@30% Voltage Dip		if voltage 230/400V	TBA	
		if voltage 277/480V	ТВА	



	Standard Controller, M-DCM-317B	
Control	Fuel tank monitoring Emergency Stop Pushbutton/ Alarm Acknowledge Engine Cool Down Timer Warm-up Timer Load Switching Timer Engine Cycle Crank	M-SCH-3176 M-SCH-
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	

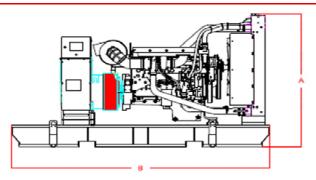


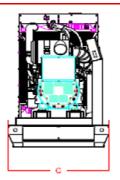
	Optio	nal Accessories ^(continues)	
	Fuel	Micro-Diesel Filter for Micro-Particles Filtration Automatic Fuel Refilling System Fuel Water Separator (2000/10) Mechanical Fuel Level Kit Oversize Fuel Tank Upon Custom Requirements Fuel Tanks-Pipes Heater	
	Air Inlet	Sy-klone Air Cleaner Installed @ Air Intake System	
Engine	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 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 700 Dry Contacts Alarm Indication for Customer Use Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above); Voltage Adjust Potentiometer; Speed Adjust Potentiometer;		

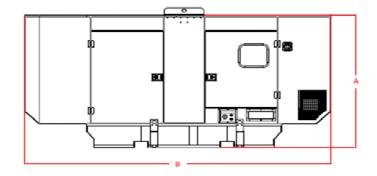


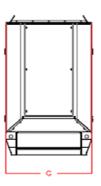
Dimensions & Weights

	Length (mm)	Width (mm)	Height (mm)	Weight Dry
Open set (NB)	2720	1210	1560	1667
SPC Type S	4280	1210	2136	2490









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