

Model	MP1850-S		NA			
Frequency/Speed - Voltage	50HZ/1500 RPM- 230/400V		60HZ/1800 RPM- 230/400V		60HZ/1800 RPM- 277/480V	
Prime Power	1845 KVA 1467 KW		NA	NA	NA	NA
Standby Power	2029.5 KVA	1623.6 KW	NA	NA	NA	NA



Image for illustration purposes only.

	image for industration purposes only
	Features
Engine	Perkins ,4016TAG1A , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271
Alternator	Stamford PI734E , Made in UK, complying to the norms: BS EN60034/ BS 5000/ VDE 0530/ NEMA MG 1-32/ IEC 34/ CSA C22.2-100/ AS 1359
Control Panel	Deap sea, M-DCM-417(7320) ,Made in UK, complying to the norms: BS EN60034/ BS 5000/ VDE 0530/ NEMA MG 1-32/ IEC 34/ CSA C22.2-100/ AS 1359
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

KVA Rating @ 0.8 P.F

permitted on standby power.

Standby Rating



	Engine Perkins, 4016TAG1A, 4 S	troke Cycle, Diesel	
	Number of Cylinders	16	
	Engine Build	60 ° V	
	Bore	160 mm	
_	Stroke	190 mm	
Structure	Displacement	61.123 L	
	Compression Ratio	13.6 /1	
	Aspiration	Turbocharged	
	Cooling	A/A	
		1500 rpm	1800 rpm
	Fuel Tank		•
		NIA.	NIA.
		NA	NA
	Fuel System Direct inje		n
	Fuel Recommended	N°2 Diesel	
Fuel	Fuel System Make (ECM)	-	
	,	1500 rpm	1800 rpm
	Delivery Flow Rate (Ir/hr)		
	Fuel Consumption		
	100% Load (g/kWh-L/hr)	205 (383)	NA
	75% Load (g/kWh-L/hr)	198 (277)	NA
	50% Load (g/kWh-L/hr)	198 (185)	NA
	Engine Coolant Capacity	316 L	
	Air Flow-Radiator	39900 l/s	NA
Cooling system	radiator with 50 degree ambient	•	
	Cooling Package & Air Cleaner Kit		
	Thermostatically-controled system		
Air Inlet	Air Intake Engine(Clean Filter/Dirty)	1.2 / 3.7kPa	
	Exhaust Gas Temperature (Prime)	438 °C	NA
	Exhaust Gas Flow (Prime)	3333.3 l/s	NA
Exhaust System	Maximum Exhaust System Back	7.95 kPa	NA
Exhaust System	Pressure		IVA
	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	40 A	
	Dc Voltage Monitoring via control		
	Radiated Heat to Ambient (Prime)	103 kW	NA
Heat Rejection(prime)	Heat Rejection to Coolant (Prime)	586 kW	NA
	Heat Rejection to Exhaust (Prime)	1079 kW	NA
	Heat Rejection to intercooler (prime)	490 kW	NA
Lube System	Lubricating System Oil Capacity	237.2 L	
Governor	Electronic		



Structure

A 1				DITOAE
$\Delta \Pi$	ternai	ror S	tamı	, PI734E
	terria	LUI J	CUIIII	, I I/ JTL

Insulation System Class H

Winding Pitch 2/3 to minimize harmonics effects

Number of Poles 4

Number of Bearings Single bearing

Winding Leads 6
Power Factor 0.8

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

Wave Form Distortion No load < 1.5% Non-Distorting balanced linear load < 5.0%

Telephone Interference THF< 2% IP Rating (Protection) IP23

AVR Separately excited by PMG

Synchronous, 3 phase, Brushless & Self ventilated

			1500 rpm	1800 rpm	
Power Switching	3-P Circuit Br	reaker, ACB	3200A	NA	
Temperature	Temperature	e Rise	125/40 °C		
Control & Voltage	Control System (Standard)		Separately excited by PMG		
Regulator	Voltage Regu	ılator (AVR)	MX321(3 phase sensing)	or MX341(1 phase sensing)	
	% Of Voltage	Regulation	± 0.5 % (for MX321	l) / ± 1.0 %(for MX341)	
		if voltage 230/400V	TBA		
Motor Starting Capac Voltage Dip	city@30%	if voltage 277/480V	ТВА		



	Standard Controller, M-DCM-417(7320)
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

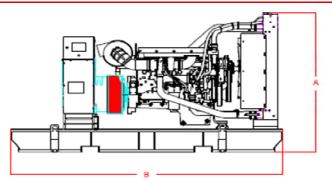


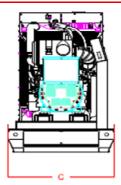
	Optional A	ccessories (continues)	
	Fuel	Micro-Diesel Filter for Micro-Particles Filtration Automatic Fuel Refilling System Fuel Water Separator (2000/40) Mechanical Fuel Level Kit Oversize Fuel Tank Upon Custom Requirements Fuel Tanks-Pipes Heater Optional Built in fuel tank 180 L operation full load	
	A to Lock	(Height will be increased by 100 mm and weight by	
Engine	Air Inlet Exhaust	Sy-klone Air Cleaner Installed @ Air Intake System 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 Dry Contacts Alarm Indication for Customer Use Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above); Voltage Adjust Potentiometer; Speed Adjust Potentiometer;		

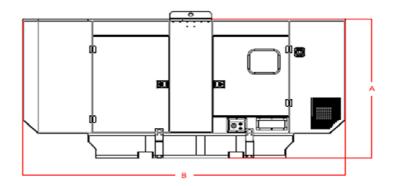


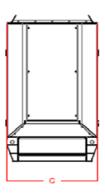
Dimensions & Weights

	Length (mm)	Width (mm)	Height (mm)	Weight Dry
Open set (NB)	6000	2740	3020	15416
SPC Type S	10000	3500	3500	21416









 $\label{lem:decompose} \mbox{Drawings} \ \mbox{for illustration purposes only}.$

WWW.METSENERGY.com