

Model	N	ЛР45-W	MP53@6-2-W				
Frequency/Speed - Voltage	50HZ/1500 RPM- 230/400V		60HZ/1800 RPM- 230/400V		60HZ/1800 RPM- 277/480V		
Prime Power	Prime Power 45 KVA 36 KW		53	KVA	42.4 KW	53 KVA	42.4 KW
Standby Power	49.5 KVA	39.6 KW	58.3	3 KVA	46.64 KW	60.5 KVA	46.64 KW



Image for illustration purposes only.

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	Features
Engine	Perkins ,1103A-33TG1 , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271
Alternator	WEG,GTA201AIHB, 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: 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.

KVA Rating @ 0.8 P.F



	Facing Pouling 44024 22TC4 4	Charles Cools Dissel			
	Engine Perkins, 1103A-33TG1, 4				
	Number of Cylinders	3			
	Engine Build	In line			
	Bore	105 mm			
tructure	Stroke	127 mm			
	Displacement	3.3 L			
	Compression Ratio	17.25/1			
	Aspiration	Turbocharged			
	Cooling	Water cooled			
		1500 rpm	1800 rpm		
	Fuel Tank	Built in fuel tank	Built in fuel tank		
		94 L for 8.7 hours	94 L for 7.3		
		operation @ full	hours operation		
		load	@ full load		
	Fuel System Direct injection		njection		
uel	Fuel Recommended N°2 Diesel				
uci	Fuel System Make (ECM)				
		1500 rpm	1800 rpm		
	Delivery Flow Rate (lr/hr)				
	Fuel Consumption				
	100% Load (g/kWh-L/hr)	214 (10.7)	216 (12.9)		
	75% Load (g/kWh-L/hr)	218.9 (8.2)	220.8 (9.9)		
	50% Load (g/kWh-L/hr)	228 (5.7)	238 (7.1)		
	Engine Coolant Capacity	10.	2L		
	Air Flow-Radiator	833.3 l/s	1166.6 l/s		
Cooling system	radiator with 50 degree ambient capability				
	Cooling Package & Air Cleaner Kit				
	Thermostatically-controled system				
Air Inlet	Air Intake Engine(Clean Filter/Dirty)	5/ 8 KPa			
	Exhaust Gas Temperature (Prime)	492 °C	510 °C		
	Exhaust Gas Flow (Prime)	116.6 l/s	146.6 l/s		
Exhaust System	Maximum Exhaust System Back Pressure	e 10 kPa	10 kPa		
	Muffler residential (20→25 dB) ii	ndustrial(15→25 dB)			
	Stainless Steel exhaust flex-fittings	, ,			
	Cranking Battery Voltage	12	V		
OC System-Starting/Charging	Battery Charging Alternator 65 A				
,	Dc Voltage Monitoring via control panel				
	Radiated Heat to Ambient (Prime)	7 kW	8 kW		
	Heat Rejection to Coolant (Prime)	26 kW	31 kW		
leat Rejection(prime)	Heat Rejection to Exhaust (Prime)	30 kW	39 kW		
	Heat Rejection to intercooler (prime)	0	39 kW		
Lube System	Lubricating System Oil Capacity	7.9			
Governor	Mechanical	7.5	•		
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Structure

Alternator Weg, GTA201AIHB

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 (125%)

Wave Form Distortion THD(Total Harmonic Distortion)@ No load < 5.0%

Telephone Interference TIF < 3% IP Rating (Protection) IP21

AVR Excitation with auxiliary coil

Synchronous, 3 phase, Brushless & Self ventilated

	- /	,			
			1500 rpm	1800 rpm	
Power Switching	3-P Circuit Break	кег, мсв	80A	80A	
Temperature	Temperature Rise		125/40 °C		
Control & Voltage Regulator	Control System (Standard)		Excitation with auxiliary coil		
	Voltage Regulat	or (AVR)	GRT7-TH4E(5A E9)		
	% Of Voltage Re	gulation	± 0.5 %		
Motor Starting Capacity@30%		if voltage 230/400V	TBA		
		if voltage 277/480V	ТВА		



	Standard Controller, M-DCM-317B	
Control	Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Acknowledge Engine Cool Down Timer Warm-up Timer Load Switching Timer Engine Cycle Crank	MOCH-3179 MOCH-3179
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)	
Alternator	Optional Accessories 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	

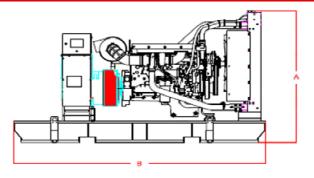


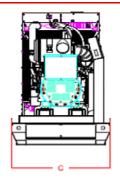
	Opti	onal Accessories ^(continues)			
		Micro-Diesel Filter for Micro-Particles Filtration			
	Fuel	Automatic Fuel Refilling System			
		Fuel Water Separator (2000/5)			
		Mechanical Fuel Level Kit			
		Oversize Fuel Tank Upon Custom Requirements			
		Fuel Tanks-Pipes Heater			
		Optional Built in fuel tank 180 L operation full load (Height will			
		be increased by 100 mm and weight by 20 kg)			
	Air Inlet	Sy-klone Air Cleaner Installed @ Air Intake System			
	Exhaust	Muffler: Critical (25→30 dB) Hospital (35→40 dB)			
Engine	Exhaust	Elbow, Flanges, Expanders & Y Adaptors			
	Cooling / Hosting	Radiator with 35 °C or 60 °C Ambient Capability			
	Cooling / 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);				
Control Panel	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;				

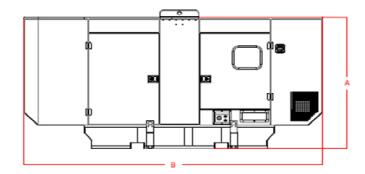


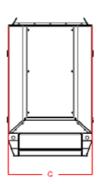
Dimensions & Weights

	Length (mm)	Width (mm)	Height (mm)	Weight Dry
Open set (NB)	1700	1050	1040	952
SPC Type S	2300	1050	1300	1327









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

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