



Generator Technical Data Sheet for

Model: PHG880CuOS



GENERATORS AND UPS



- Intelligent Auto-Start Controller with Generator
- Monitoring and Protection Systems Suitable for Remote Starting or Connection with shentonggroup AMF Panel
- Battery Trickle Charger
- Thermostatically controlled Engine Heater
- Long Range Bunded Base Fuel Tank
- Ability to be Customised to Specific Requirements
- Output Circuit Breaker

GENERAL

Shenton Group Generators range from 10 to 2500kVA, and are built to a world-class standard. These remarkably competitive standby generators provide the most cost-effective solution for 'standard package' requirements.

A first-class range of diesel-powered generators for prime and standby power application which feature reliable components from leading manufacturers, these are premium products upon which your company can build its reputation.

Model PHG788CuOS

Standby Power	kVA	880
	kW	704
Prime Power	kVA	800
	kW	640
Rated Speed	r.p.m	1500
Voltage	V	400/230
Rated Power Factor	Cos Phi	0,8
Data Sheet Number	PHG880CuOS NS Rev 4	

Prime: This rating is for the supply of continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for one hour in twelve hours.

Standby: This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted. Max rating, is available for one in twelve hours

Note: Standard reference conditions: 25deg C (77deg F) air inlet temperature, 152.4m (500feet) above sea level, 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load for diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, class A2.

In line with our policy of continuous development, we reserve the right to change specification without notice.



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ENGINE

Rated Output	kWm	768
Manufacturer		Cummins
Model		QSK23G3
Engine Type		Diesel 4 Strokes-Cycle
Aspiration Type		Turbo charged & after cooled
Cylinders Arrangement		Straight 6
Bore & Stroke	mm	170 x 170
Displacement	L	23.15
Cooling System		Water
Compression Ratio		16.0:1
Fuel Consumption 100% PRP	l/h	161
Fuel Consumption 75% PRP	l/h	121
Fuel Consumption 50% PRP	l/h	85
Total Oil Capacity	L	74
Total Coolant Capacity	L	120
Governor	Type	Electronic
Air Filter	Type	Dry Paper Cartridge
Battery Capacity	Ah	2 x 225Ah
Battery Voltage	V	24

Cummins G-Drive's product range boasts reliable and durable diesel and natural gas engines. Continuous research and development ensures that all G-Drive products deliver the highest power density per class. G-Drive engines have been the driving force behind the world's generator sets for over 80 years, providing vital power solutions to a variety of markets including industrial, commercial, healthcare and telecommunications.



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ALTERNATOR

Manufacturer		Mecc Alte
Model		ECO 43-1S/4
Poles		4
Frequency	Hz	50
Insulation Class		H
Efficiency at 75% load class H 400v	%	95.3
Reactance Xd''	%	9.9
Short Circuit Current Capacity	%	>300
Heat Dissipation 400v	W	32976
Radio Interference		EN61000-6-3, EN61000-6-1
Waveform Distortion (THD) at Full Load	%	2.8
Enclosure (according IEC-34-5)		IP 21
Weight of Complete Generator	Kg	1870
Cooling Air Requirement	m3/min	90
Alternator Rating Overload	%	10% for 1 in 6 hours
Overload per 20 sec	%	300
Exciter System		Auxiliary winding
Voltage Regulator		DSR
Voltage regulation Performance +/-	%	1
Coupling		Flexible Disk

Mecc Alte has sixty years of experience in the electromechanical field, and is today at its height in the world production of synchronous alternators. Committed daily to research, development and updating activities, Mecc Alte is a testimony to constant improvement in all areas such as technology, organisation and quality. The company has ISO 9001 certification, awarded in 1996 and ISO 14001 since 2010. With 54.000 square meters of factory area, almost 850 employees and a turnover of approximately 130 million euro, Mecc Alte is a well-established company ready to challenge the markets in every product sector.



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APPLICATION DATA

Exhaust System

Maximum Exhaust Temperature	°C	543
Exhaust Gas Flow	M3/min	148
Maximum Allowed Back Pressure	kPa	10

Air Flows

Intake Air Flow	m3/h	3197
Cooling Air Flow	m3/s	TBA
Available Air Restriction		N/A

Fuel System

Fuel Oil Spec		DIESEL
Fuel Tank Capacity	L	1600
Autonomy @ 75% load	Hrs	13

Dimensions/weight

Length	mm	4000
Width	mm	1700
Height	mm	2100
Weight excluding fuel	Kg	5350
Sound Pressure Level @ 7 mtrs	dB(A)	70

Electrical

Output Circuit Breaker	Type	MCCB
	Model	ABB T7S
Full Load Current at 400V .8 p.f.	Amps	1270



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SG7410DS GENERATOR CONTROLLER

The SG7410DS is an Auto Start Control Module. Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet[®] terminals for system expansion. The module is compatible with electronic (CAN) and non-electronic (magnetic pick up/alternator sensing) engines and offers an extensive number of flexible inputs, outputs and engine protections so the system can be easily adapted to meet the most demanding industry requirements. The full list of features includes enhanced event and performance monitoring, remote communications and dual mutual standby.

CONTROL PANEL DISPLAY FEATURES

Engine RPM	Generator Output Current
Engine Oil Pressure	Earth current
Coolant temperature	Output kW
Battery Volts	Load level %
Run Hours/ No of starts	Output kVA
Fuel level	Power factor
Generator output Voltage	Load kVAR
Frequency	kWh/kVAh/kVArh

SG7410DS is a branded Deep Sea Electronics controller, customized to shentonggroup's specific requirements. shentonggroup has a long history of collaboration with Deep Sea Electronics, and endorse their products with confidence. Our experience has proved this is the market-leading controller having a perfect mix of complex capability and user simplicity.

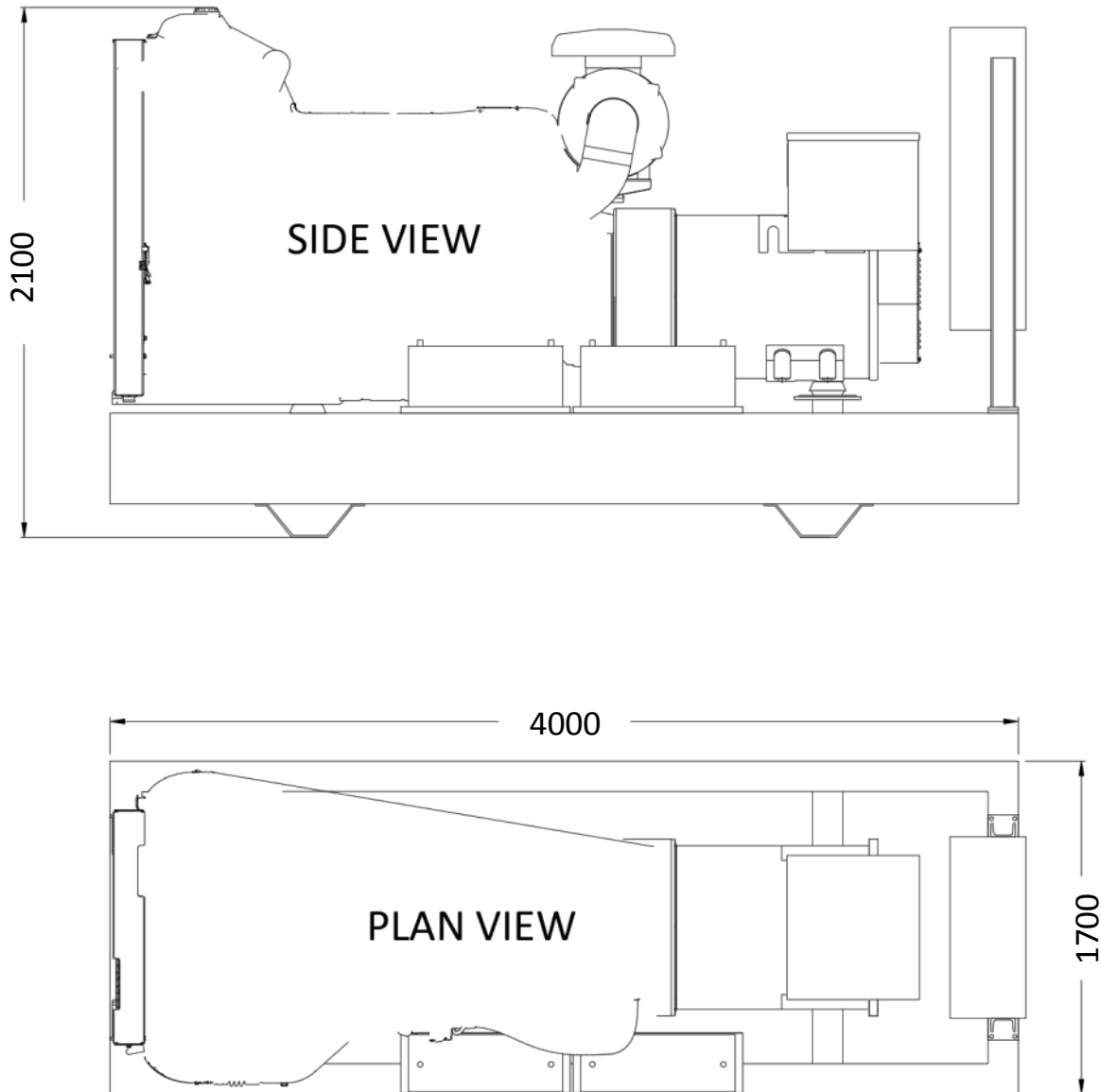


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The above illustration is a representation only for preliminary planning. Specific detailed drawings are available on request. In line with our policy of continuous development , we reserve the right to change specifications without notice.