

Generator Technical Data Sheet for

Model: PHG2750MtOS



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
- 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 PHG2750MtOS

Standby Power	kVA	2750
	kW	2200
Prime Power	kVA	2500
	kW	2000
Rated Speed	r.p.m	1500
Voltage	V	400/230
Rated Power Factor	Cos Phi	0,8
Data Sheet Number	PHG2750MtOS NS Rev 1	

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	2200
Manufacturer		MTU
Model		20V 4000 G14F
Engine Type		Diesel 4 Strokes-Cycle
Aspiration Type		Turbo charged & intercooled
Cylinders Arrangement		V20
Bore & Stroke	mm	170 x 210
Displacement	L	95.4
Cooling System		Water
Compression Ratio		16.4:1
Fuel Consumption 100% PRP	l/h	519
Fuel Consumption 75% PRP	l/h	396
Fuel Consumption 50% PRP	l/h	285
Total Oil Capacity	L	390
Total Coolant Capacity	L	485
Governor	Type	Electronic
Air Filter	Type	Dry Paper Cartridge
Battery Capacity	Ah	4 x 286 Ah
Battery Voltage	V	24

With the reliable and proven MTU gendrive engines, you profit from over 100 years of experience in the production of drive systems for diesel gensets. Thanks to their compact dimensions, engines are easily integrated into power generators. Covering a performance spectrum of between 249 to 3,490 kW, they are ideal for use in emergency, base load and peak load gensets (prime/standby power: 50/60 Hz).

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ALTERNATOR

Manufacturer		Mecc Alte
Model		ECO 46-2L/4
Poles		4
Frequency	Hz	50
Insulation Class		H
Efficiency at 75% load class H 400v	%	97
Reactance Xd"	%	11.5
Short Circuit Current Capacity	%	>300
Heat Dissipation 400v	W	66116
Radio Interference		EN61000-6-3, EN61000-6-2
Waveform Distortion (THD) at Full Load	%	2.8
Enclosure (according IEC-34-5)		IP 21
Weight of Complete Generator	Kg	4380
Cooling Air Requirement	m3/min	135
Alternator Rating Overload	%	10% for 1 in 6 hours
Overload per 20 sec	%	300
Exciter System		Auxilliary Winding
Voltage Regulator		DER1
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	600
Exhaust Gas Flow	M3/min	426
Maximum Allowed Back Pressure	kPa	N.A.

Air Flows

Intake Air Flow	m3/h	N.A.
Cooling Air Flow	m3/s	37.5
Available Air Restriction	kPa	N.A.

Fuel System

Fuel Oil Spec		DIESEL
Fuel Tank Capacity	L	2500
Autonomy @ 75% load	Hrs	6

Dimensions/weight

Length	mm	6100
Width	mm	3000
Height	mm	2500
Weight excluding fuel	Kg	16000e
Sound Pressure Level @ 7 mtrs	dB(A)	N/A

Electrical

Output Circuit Breaker	Type	MCCB
	Model	ABB E4.2N TBC 4000 Amps
Max Load Current at 400V .8 p.f.	Amps	3608

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SG7410MKiIDS GENERATOR CONTROLLER

The SG7410MKiIDS 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 backlit 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

SG7410MKiIDS is a branded Deep Sea Electronics controller, customized to shentongroup's specific requirements. shentongroup 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.



shentonggroup

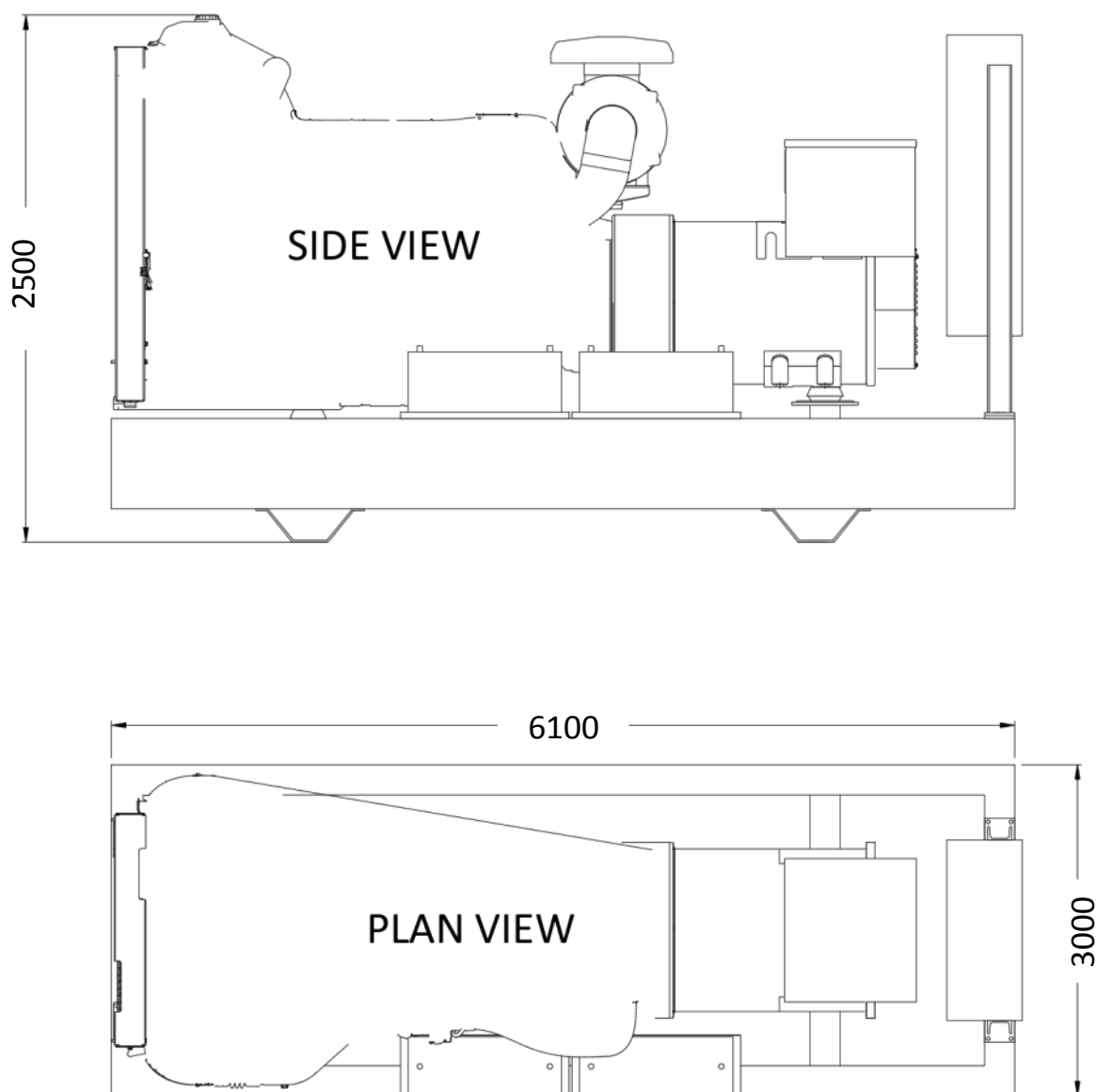
power with responsibility

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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.