



# GENERATING SET GE SX-6500 YDT

The images are for reference



## FEATURES

- Bundled base suitable to contain any liquids leakage from engine avoiding environmental pollution
- The rounded edges of the canopy designed for rainwater drainage away
- Engine cowling side, can be completely opened, which facilitates all maintenance operations
- Central lifting eye
- Circuit breaker and ELCB-GFI (Ground Fault Interruptor)
- Emergency stop button
- Supersilenced
- Ready for connection to automatic transfer unit EAS
- Automatic voltage regulator
- Meets EC directives for noise and safety



air cooled



diesel



three-phase



electric start



## POWER RATINGS

* Stand-By three-phase power (LTP)	6.5 kVA (5.2 kW) /400V/ 9.4A
* PRP three-phase power	5.7 kVA (4.6 kW) /400V/ 8.2A
* PRP single-phase power	3.5 kVA/kW /230V/ 15.2A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.8

\* Powers declared according to ISO 8528

## DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

**LTP power: stand-by power:** Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

**PRP power:** continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

**COP power:** continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

## ENGINE 3000 RPM

### 4 STROKE, NATURAL ASPIRATED

Model	YANMAR L 100 V
Stand-By net power	6.3 kWm (8.5 hp)
PRP net power	5.7 kWm (7.7 hp)
COP net power	/
Cylinders / Displacement	1 / 435 cm <sup>3</sup> (0,435 lt.)
Bore / Stroke	86 / 75 (mm)
Compression ratio	20 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
110 % (Stand-by power)	1.9 lt./h
100 % to PRP	1.7 lt./h
75 % to PRP	1.2 lt./h
50 % to PRP	0.8 lt./h
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	/
<b>LUBRICATION SYSTEM</b>	
Total oil system capacity	/
Oil capacity in sump	1.6 lt.
Oil consumption at full load	/

### EXHAUST SYSTEM

Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	4.3 kPa (0.043 bar 440 mmH <sup>2</sup> O)
External diameter exhaust pipe	/
<b>ELECTRICAL SYSTEM</b>	
Starter motor power	0.8 kW
Battery charging alternator cap.	15 A
Cold start	- 10°C
With cold start aid	/
<b>AIR FILTER</b>	
Combustion air flow	/
<b>HEAT REJECTED AT FULL LOAD</b>	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/



## ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED	
Continuous power	7 kVA
Stand-by power	7.7 kVA
Three phase voltage	400 ÷ 415 Vac
Frequency	50 Hz
Cos φ	0.8
Model A.V.R.	AVR-d
Voltage regulation acc.	± 1.5 %
Sustained short circuit current	3 In
Transient dip (100% load)	< 10 %
Recovery time	/
Efficiency at 100% load	81 % (400V - Cos φ 0.8)
Insulation	Class H
Connection - Terminals	Series - N°6
Electromagnetic compatibility (R.F.I. suppr.)	/
Waveform distortion - THD	<6%
Telephone interference - THF	/

REACTANCES (7 KVA - 400V)	
Direct axis synchronous - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X''d	/
Quadrature axis synchronous - Xq	/
Quadr. axis subtransient - X''q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	/
Subtransient - T''d	/
Open circuit - T'do	/
Armature - Ta	/
Short-circuit ratio Kcc	/
IP protection degree	IP 23
Cooling air flow	/
Coupling   Bearing	Direct SAE J609b - N°1

## GENERAL SPECIFICATIONS

Fuel tank capacity	23 lt.
Running time (75% to PRP)	19 h
Starter battery	12 Vdc -37Ah / 330A CCA(EN)
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	91.6 dB(A) (66.6 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	93 dB(A) (68 dB(A) @ 7m)
Performance class	G2

\* Acoustic power in accordance with Directive 2000/14/EC

## CONTROL PANEL

- Start and stop engine key
- Engine protector thermal circuit breaker: 1x5A
- Low oil pressure warning light with shutdown
- Low fuel warning light with shutdown
- Battery charge warning light fault
- Local-Remote Start switch. Switch on Remote position for operating with Auto Transfer Switch EAS
- EAS plug
- Digital multifunction meter : A.C. Voltmeter - Frequncymeter - Total Hoursmeter - Partial Hoursmeter (resettable) - Battery voltmeter
- Emergency stop buttom
- Earth leakage with integral over-current circuit breaker
- Circuit breaker for 400V socket
- Output sockets : 1x 400V 16A 3P+N+T CEE IP67  
1x 230V 16A 2P+T CEE IP67  
1x 230V 16A 2P+T Schuko
- 1 Circuit breaker for 230V/16A sockets 230 /16A
- Earth terminal (PE)



# WEIGHT - DIMENSIONS AND ACCESSORIES

GE SX-6500 YDT



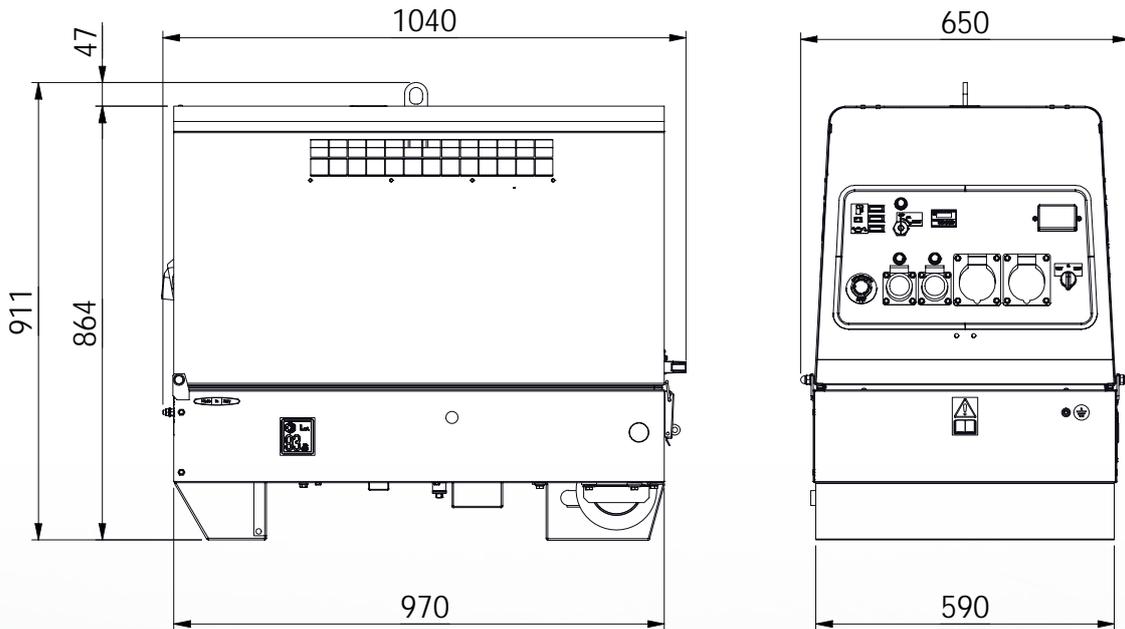
### DRY WEIGHT MACHINE:

- 202 Kg

Generating set pictured may include optional accessories.



### DIMENSIONS DRAW (mm)



### OPTIONS ON REQUEST

- Ready for connection to automatic transfer unit EAS 15 - 806 (25 A)
- Remote control TCM6
- Earthing kit
- Trolley CTM2
- Road trailer CTV4
- Exhaust extension



### VERSIONS ON REQUEST

- /



### FACTORY INSTALLATION OPTIONS

- /

## GENERAL INFORMATION

### COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

- 2006/42 / EC (Machines Directive)
- 2014/35 / EU (Low Voltage Directive)
- 2014/30 / EU (EMC Directive)
- 2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
- ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2008 - Cert. 0192

### WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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