



# GENERATING SET GE SX-6000 YDM

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



singl-phase



electric start



## POWER RATINGS

* Stand-By single-phase power (LTP)	5.7 kVA (5.1 kW) / 230V / 24.8A
* Stand-By single-phase power (LTP)	5.7 kVA (5.1 kW) / 115V / 49.6A
* PRP single-phase power	5 kVA (4.5 kW) / 230V / 21.7A
* PRP single-phase power	5 kVA (4.5 kW) / 115V / 43.4A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.9

\* 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, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS (WITHOUT AVR)		
SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED (WITH AVR)		
	WITH AVR (230V)	(230V/115V) WITHOUT AVR
Continuous power	6 kVA	
Stand-by power	6.6 kVA	
Three phase voltage	230/115 Vac	
Frequency	50 Hz	
Cos φ	1	
Model A.V.R.	AVR-d	/
Voltage regulation acc.	± 2 %	+ 5 % / - 10%
Sustained short circuit current	≤ 3 In	
Transient dip (100% load)	10 %	
Recovery time	/	
Efficiency at 100% load	77% (230V - Cos φ 1)	76% (230V - Cos φ 1)
Insulation	Class H	
Connection - Terminals	Series - N°4	
Electromagnetic compatibility (R.F.I. suppr.)	/	
Waveform distortion - THD	<6%	
Telephone interference - THF	/	

REACTANCES (6 KVA - 230/115 V)	
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)	91.2 dB(A) (66.2 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 230V

- Engine start and stop key
- Low oil pressure warning light with engine stop
- Battery charge warning light
- Low fuel warning light with engine stop
- Local-Remote Start switch
- EAS connector
- Multifunction digital instrument: Voltmeter - Frequency meter - Total hour counter - Partial hour counter (resettable) - Battery voltage
- Emergency stop button
- Switch magnetermic
- Differential switch
- Output sockets: 1x 230V 32A 2P + T CEE IP67  
1x 230V 16A 2P + T CEE IP67  
1x 230V 16A 2P + T Schuko
- No. 2 Interr. thermal magnetic switches for 230V / 16A sockets
- Earth terminal (PE)

## MANUAL CONTROL PANEL 230/115V (CTE)

- Engine start and stop key
- Low oil pressure warning light with engine stop
- Battery charge warning light
- Low fuel warning light with engine stop
- Multifunction digital instrument: Voltmeter - Frequency meter - Total hour counter - Partial hour counter (resettable) - Battery voltage
- Emergency stop button
- Switch magnetermic
- Differential switch
- Output sockets: 1x 230V 32A 2P + T CEE  
1x 230V 16A 2P + T CEE  
1x 115V 32A 2P + T CEE  
1x 115V 16A 2P + T CEE
- Thermal breakers for socket protection: 2 x 16A
- Voltage switch 230V-115V
- Earth terminal (PE)

# WEIGHT - DIMENSIONS AND ACCESSORIES

GE SX-6000 YDM



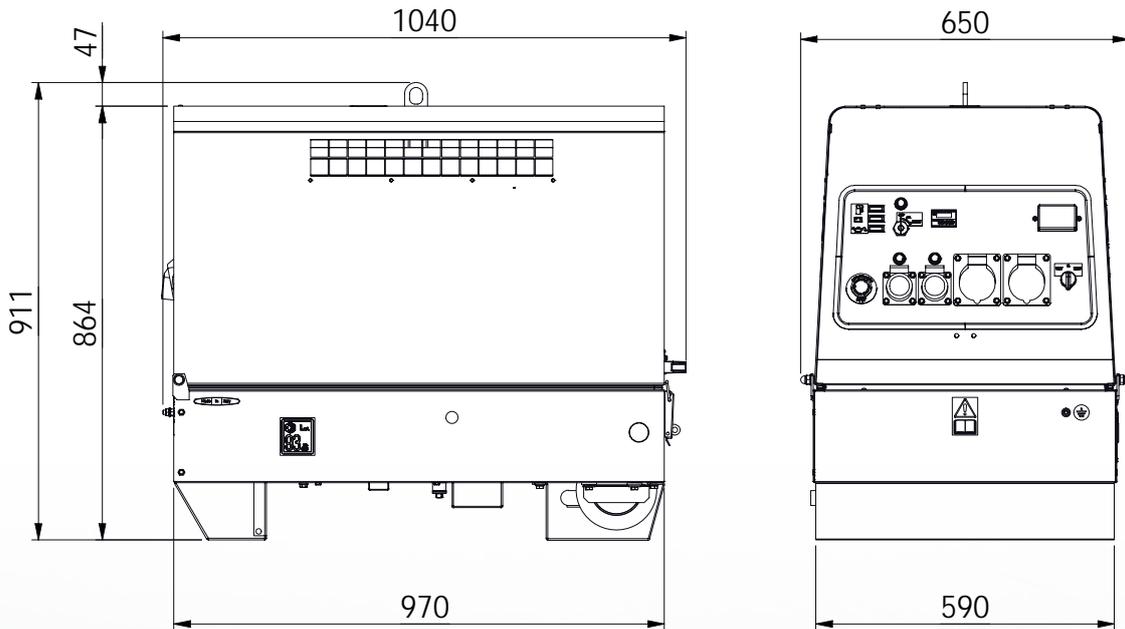
### DRY WEIGHT MACHINE:

- 200 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
- Exhaust extension
- Trolley CTM2
- Road trailer CTV4
- Earthing kit

\* only for version 230V



### VERSIONS ON REQUEST

- Version 230V/115V (CTE)



### 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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