

# GENERATING SET GE 14000 KSX/GS

The images are for reference



## FEATURES

- Automatic voltage regulation "AVR"
- Engine cowl side, can be completely opened, which facilitates all maintenance operations
- The recessed control panel is lockable and houses the sockets and machine
- Central lifting eye
- Ready for connection to automatic transfer unit EAS (AMF + ATS)
- Meets EC directives for noise and safety



air  
cooled



diesel



three-phase  
power



electric  
starter



super  
silenced

## POWER RATINGS

* Stand-By three-phase power	15 kVA (12 kW) / 400 V / 21.7 A
* PRP three-phase power	13.5 kVA (10.8 kW) / 400 V / 19.5 A
* PRP single-phase power	5 kVA / 230 V / 21.7 A
* COP single-phase power	/
Frequency	50 Hz
cos φ	0.8

\* Output powers according to ISO 8528-1

## 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, DIRECT INJECTION, NATURAL ASPIRATED

Model	KOHLER KD 477/2
* Stand-By net power	14.9 kWm (20.3 hp)
* PRP net power	13.5 kWm (18.4 hp)
* COP net power	/
Cylinders / Displacement	2 / 954 cm <sup>3</sup> (0.954 lt.)
Bore / Stroke	90 / 75 (mm)
Compression ratio	19 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
110 % (Stand-by power)	4.1 lt./h
100 % to PRP	3.7 lt./h
75 % to PRP	2.8 lt./h
50 % to PRP	1.8 lt./h
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	13.3 m <sup>3</sup> /min.
<b>LUBRICATION SYSTEM</b>	
Total oil system capacity	/
Oil capacity in sump	3 lt.
Oil consumption at full load	< 0.011 kg./h

\* Output powers according to ISO 3046-1

<b>EXHAUST SYSTEM</b>	
Maximum exhaust gas flow	3.48 m <sup>3</sup> /min.
Max. exhaust gas temp.	600 °C
Maximum back pressure	6.7 kPa (0.067 bar)
External diameter exhaust pipe	/
<b>ELECTRICAL SYSTEM</b>	
Starter motor power	1.8 kW
Battery charging alternator cap.	25 A
With cold start aid	- 15°C 1000 rpm / - 8°C 3000 rpm
<b>AIR FILTER</b>	
Combustion air flow	1.26 m <sup>3</sup> /min.
<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, BRUSHLESS	
Continuous power	13,5 kVA
Stand-by power	15 kVA
Three phase voltage	400 Vac
Frequency	50 Hz
Cos $\varphi$	0.8
Model A.V.R.	AVR
Voltage regulation acc.	$\pm 2 \%$
Sustained short circuit current	3 In
Transient dip (100% load)	15 %
Recovery time	/
Efficiency at 100% load	82.9 % (400V - Cos $\varphi$ 0.8)
Insulation	Class H
Connection - Terminals	Serie - N°6
Electromagnetic compatibility (R.F.I. suppr.)	/
Waveform distortion - THD	< 5 %
Telephone interference - THF	/

REACTANCES (13.5 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	/
Cooling air flow	/
Coupling   Bearing	Direct B3/B9 cono38 - N°1

## GENERAL SPECIFICATIONS

Fuel tank capacity	23 l
Running time (75% to PRP)	8.2 h
Starter battery	12 Vdc - 44Ah
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	96 dB(A) (71 dB(A) @ 7m)
Performance class (ISO 8528)	G2

\* Acoustic power according to European Directive 2000/14/CE

## CONTROL PANEL

- Starter key
- Manual throttle control
- Low oil pressure stop light
- High engine stop light
- Battery charge warning light
- Low fuel warning light
- Motor protection ES
- Count-hours
- Local-Remote Start switch. Position in Remote for operation with the EAS panel.
- EAS connector (10 poles)
- Voltmeter - led frequency meter
- Switch magnetemic
- Differential switch
- CEE output sockets: see table "Available socket combinations"
- Earth terminal (PE)

## AVAILABLE SOCKET COMBINATIONS

	VERSION	
	STANDARD	SCHUKO
1x400V 32A 3P+N+T	•	•
1x400V 16A 3P+N+T	•	•
1x230V 32A 2P+T	•	•
1x230V 16A 2P+T	•	
1x230V 16A 2P+T Schuko		•



# WEIGHT - DIMENSIONS AND ACCESSORIES

GE 14000 KSX/GS



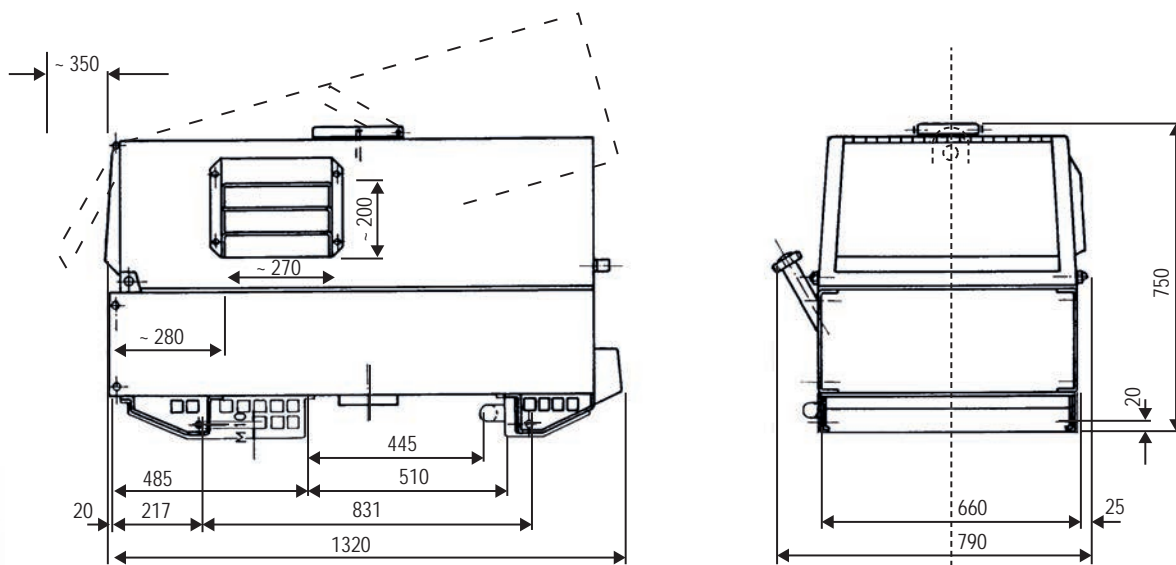
## DRY WEIGHT MACHINE:

- 315 kg

Generating set pictured may include optional accessories.



## DIMENSIONS DRAW



## OPTIONS ON REQUEST

- Automatic transfer unit EAS 17 - 809 (25 A)
- Remote control TCM22
- Locking Fuel Cap
- Trolley CTM300
- Site tow CTL300
- Road trailer CTV4
- Earthing kit



## VERSIONS ON REQUEST

- SCHUKO version



## FACTORY INSTALLATION OPTIONS

- Engine oil heater

## 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 9001:2015 - 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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