MOSA

language

MADE IN ITALY

GENERATING SET
GE 12000 KSX/GS

The images are for reference



FEATURES

- Automatic voltage regulation “AVR”
- Engine cowling 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
- Meets EC directives for noise and safety

air cooled | diesel | singl-phase | electric start | super silenced

POWER RATINGS	
Stand-By single-phase power (LTP)	13.5 kVA (12.1 kW) / 230 V / 58.7 A
* PRP single-phase power	12 kVA (10.8 kW) / 230 V / 52.5 A
* Stand-by single-phase power	13.5 kVA (12.1 kW) / 115 V / 117.4 A
* PRP single-phase power	12 kVA (10.8 kW) / 115 V / 104.4 A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.9

* 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 cm³ (0.954 lt.)
Bore / Stroke	90 / 75 (mm)
Compression ratio	19 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
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
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	13.3 m³/min.
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	3 lt.
Oil consumption at full load	< 0.011 kg./h

EXHAUST SYSTEM	
Maximum exhaust gas flow	3.48 m³/mim.
Max. exhaust gas temp.	600 °C
Maximum back pressure	6.7 kPa (0.067 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	1.8 kW
Battery charging alternator cap.	25 A
With cold start aid	- 15°C 1000 rpm / - 8°C 3000 rpm
AIR FILTER	in oil bath
Combustion air flow	1.26 m³/min.
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

BCS group

ALTERNATOR

SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED		
	WITHOUT AVR	WITH AVR
Continuos power	12 kVA	
Stand-by power	13.5 kVA	
Three phase voltage	230/115 Vac	
Frequency	50 Hz	
Xoσ	1	
Model A.V.R.	/	AVR
Voltage regulation acc.	± 5 %	± 2 %
Sustained short circuit current	3 In	
Transient dip (100% load)	10 %	
Recovery time	/	
Efficiency at 100% load	81.7 % (230V - Cosφ 1)	81.2 % (230V - Cosφ 1)
Insulation	Class H	
Connection - Terminals	Series - N°4	
Electromagnetic compatibility (R.F.I. suppr.)	/	
Waveform distorsion - THD	< 5 %	
Thelephone interference - THF	/	

REACTANCES (12 KVA - 230/115 V)	
Direct axis synchronuos - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X"d	/
Quadrature axis synchronuos - 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 I Bearing	Direct B3/B9 cono 38 - 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

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 magnetermic
- Differential switch
- CEE output sockets: 1x230V 63A 2P+T
  1x230V 32A 2P+T
  1x230V 16A 2P+T
- Thermal breakers for socket protection: 1x 30A - 1x 16A
- Earth terminal (PE)

CONTROL PANEL 230/115V

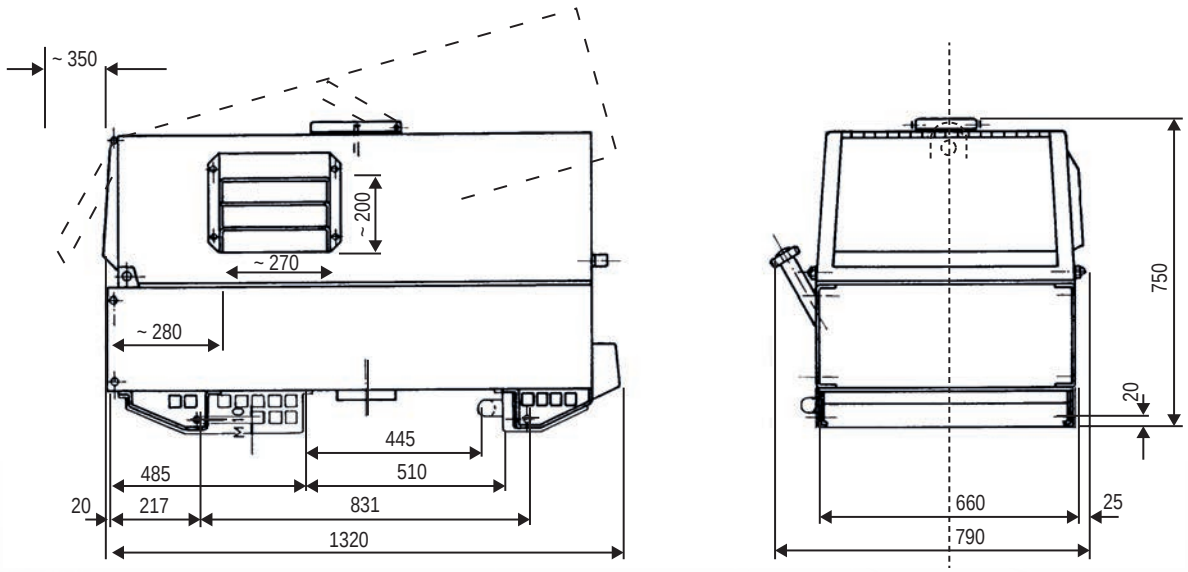
- NOT PREPARED for use with EAS automatic panel
- WITHOUT AVR electronic voltage regulator
- Starter key
- Manual throttle control
- Manual stop command
- Low oil pressure stop light
- High engine stop light
- Battery charge warning light
- Low fuel warning light
- Motor protection ES
- Count-hours
- Voltmeter - led frequency meter
- Switch magnetermic
- Differential switch
- CEE output sockets: 1x230V 32A 2P+T
  1x230V 16A 2P+T
  2x115V 32A 2P+T
  2x115V 16A 2P+T
- Thermal breakers for socket protection: 3x 30A - 3x 16A
- Earth terminal (PE)

WEIGHT - DIMENSIONS AND ACCESSORIES

DRY WEIGHT MACHINE:
- 297 Kg

Il gruppo elettrogeno raffigurato può includere accessori opzionali.

DIMENSIONS DRAW (mm)



OPTIONS ON REQUEST

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

VERSIONS ON REQUEST

- Version 230/115V

FACTORY INSTALLATION OPTIONS

- Engine oil heater OH

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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