

# GENERATING SET GE 20000 KS/GS

The images are for reference



## FEATURES

- Engine cowling side, can be completely opened, which facilitates all maintenance operations
- The rounded edges of the canopy designed for rainwater drainage away
- 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	20 kVA (16 kW) / 400 V / 28.9A
* PRP three-phase power	18 kVA (14.4 kW) / 400 V / 26A
* PRP single-phase power	9 kVA / 230 V / 39.1 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, NATURAL ASPIRATED

Model	KOHLER KD 625/2
* Stand-By net power	18.8 kWm (25.5 hp)
* PRP net power	17.1 kWm (23.2 hp )
* COP net power	/
Cylinders / Displacement	2/ 1248 cm³ (1,248 lt.)
Bore / Stroke	95 / 88 (mm)
Compression ratio	18.3 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
110 % (Stand-by power)	5.8 lt./h
100 % to PRP	5.3 lt./h
75 % to PRP	4 lt./h
50 % to PRP	2.7 lt./h
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	26.3 m³/min
<b>LUBRICATION SYSTEM</b>	
Total oil system capacity	/
Oil capacity in sump	2.8 lt.
Oil consumption at full load	< 0.013 kg./h

\* Output powers according to ISO 3046-1

<b>EXHAUST SYSTEM</b>	
Maximum exhaust gas flow	4.8 m³/mim.
Max. exhaust gas temp.	600 °C
Maximum back pressure	9 kPa (0.09 bar)
External diameter exhaust pipe	/
<b>ELECTRICAL SYSTEM</b>	
Starter motor power	1.7 kW
Battery charging alternator cap.	18 A
With cold start aid	- 15°C 1000 rpm / - 8°C 3000 rpm
<b>AIR FILTER</b>	
Combustion air flow	1.6 m³/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	22 kVA
Stand-by power	24 kVA
Three phase voltage	400 Vac
Frequency	50 Hz
Cos $\varphi$	0.8
Model A.V.R.	/
Voltage regulation acc.	$\pm 4 \%$
Sustained short circuit current	3 In
Transient dip (100% load)	12 %
Recovery time	/
Efficiency at 100% load	86 % (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 (22 kVA - 400V)	
Direct axis synchronous - Xd	373%
Direct axis transient - X'd	29%
Subdirect axis transient - X''d	12%
Quadrature axis synchronous - Xq	162%
Quadr. axis subtransient - X''q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	0.047
Subtransient - T''d	0.006
Open circuit - T'do	0.6
Armature - Ta	/
Short-circuit ratio Kcc	0.42
Cooling air flow	/
Coupling I Bearing	Direct Std Lombardini - N°1

## GENERAL SPECIFICATIONS

Fuel tank capacity	26 l
Running time (75% to PRP)	6.5 h
Starter battery	12 Vdc -60Ah
IP protection degree	IP 23

* Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)
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
- Hour meter
- 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"
- Thermal circuit breakers for socket protection 2x30A - 1x30A - 1x16A (Schuko version)
- Earth terminal (PE)

## AVAILABLE SOCKET COMBINATIONS

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

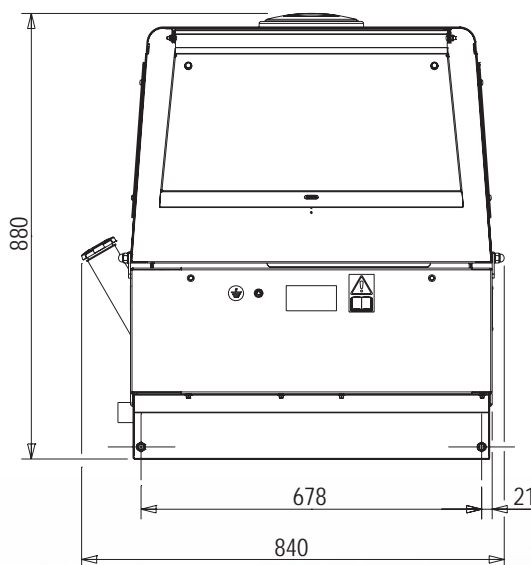
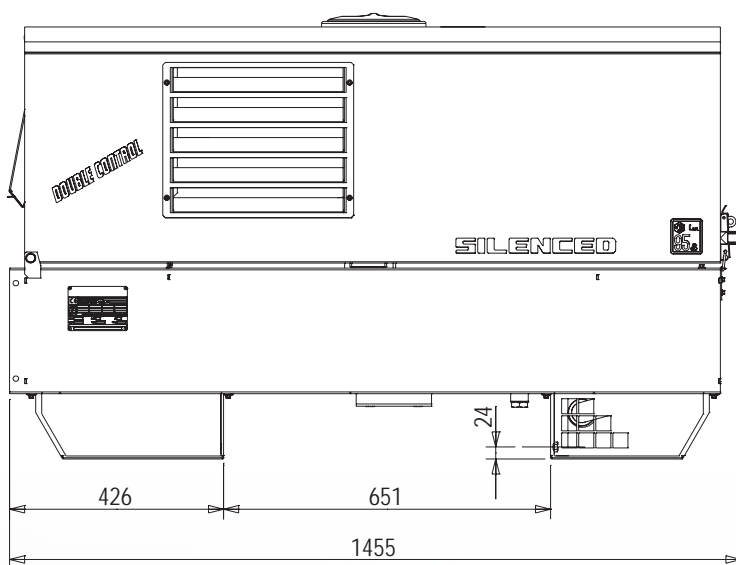
# WEIGHT - DIMENSIONS AND ACCESSORIES

GE 20000 KS/GS

**DRY WEIGHT MACHINE:**  
• 420 kg

Generating set pictured may include optional accessories.

**DIMENSIONS DRAW**



## OPTIONS ON REQUEST

- Automatic transfer unit EAS 28-809 (40A)
- Remote control TCM22
- Locking Fuel Cap
- Site tow CTL400
- 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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