



GENERATING SET GE 55 PS

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
- Silenced
- Ready for connection to automatic transfer unit EAS (AMF + ATS)
- Meets EC directives for noise and safety



POWER RATINGS

* Stand-By three-phase power (LTP)	51 kVA (40.8 kW) / 400V / 73.6 A
* PRP three-phase power	46 kVA (36.8 kW) / 400V / 66.4 A
* PRP single-phase power	17 kVA / 230V / 73.9 A
* COP 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 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED

Model	PERKINS - 1103A-33TG1
Cylinders / Displacement	3/ 3300 cm ³ (3.3 lt.)
Bore / Stroke	105 / 127 (mm)
Compression ratio	17.25 : 1
* Stand-By net power	45.6 kWm (62 hp)
* PRP net power	41.3 kWm (56.2 hp)
* COP net power	/
BMEP (Brake Mean Effective Pressure : LTP - PRP)	1128 kPa - 1023 kPa
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	219 g/kWh - 12 lt./h
100 % to PRP	217 g/kWh - 10.7 lt./h
75 % to PRP	220 g/kWh - 8.2 lt./h
50 % to PRP	264 g/kWh - 5.7 lt./h
COOLING SYSTEM	
Total system cap. - only engine	10.2 lt - 4.,4 lt
Fan air flow	53 m ³ /min.
LUBRIFICATION SYSTEM	
Total oil system capacity	8.3 lt
Oil capacity in sump	6.2 lt ÷ 7.8 lt
Oil consumption at full load	< 0.016 lt./h

* Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	7.7 m ³ /min.
Max. exhaust gas temp.	537 °C
Maximum back pressure	10 kPa (0.10 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	3 kW
Battery charging alternator cap.	65 A
Cold start	- 10°C
With cold start aid	- 25 °C
AIR FILTER	
Combustion air flow	3.1 m ³ /min
HEAT REJECTED AT FULL LOAD	
To exhaust system	35 kW - 1992 Btu/min.
To water and oil	30 kW - 1707 Btu/min.
Radiated to room	8 kW - 455 Btu/min.
To charge cooler	/

ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Continuous power	48 kVA
Stand-by power	53 kVA
Three phase voltage	380-415 Vac
Frequency	50 Hz
Cos φ	0.8
Model A.V.R.	MARK V
Voltage regulation acc.	± 5 %
Sustained short circuit current	210 A
Transient dip (100% load)	< 20 %
Recovery time	< 0.3 sec
Efficiency at 100% load	88.7 % (400V - Cos φ 0.8)
Insulation	Classe H
Connection - Terminals	Stella - N°12
Electromagnetic compatibility (R.F.I. suppr.)	EN55011
Waveform distortion - THD	< 2 %
Telephone interference - THF	< 2 %

REACTANCES (48 kVA - 400V)	
Direct axis synchronous - X _d	270 %
Direct axis transient - X' _d	22.5 %
Subdirect axis transient - X'' _d	11.4 %
Quadrature axis synchronous - X _q	150 %
Quadr. axis subtransient - X'' _q	13.2 %
Negative sequence - X ₂	12.3 %
Zero sequence - X ₀	2.6 %
TIME CONSTANTS	
Transient - T' _d	0.055 sec
Subtransient - T'' _d	0.010sec
Open circuit - T' _{do}	0.57 sec
Armature - T _a	0.010 sec
Short-circuit ratio K _{cc}	0.40
Cooling air flow	0.21 m ³ /sec.
Coupling Bearing	Direct SAE 3 -11 1/2 - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	65 lt.
Running time (75% to PRP)	8 h
Starter battery	12 Vdc -100Ah
IP protection degree	IP 23

* Measured acoustic power L _{WA} (pressure L _{pA})	94 dB(A) (69 dB(A) @ 7m)
* Guaranteed acoustic power L _{WA} (pressure L _{pA})	95 dB(A) (70 dB(A) @ 7m)
Performance class (ISO 8528)	G2

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

CONTROL PANEL

- Controller EP6
- Fuel level gauge
- Siren
- Emergency stop button
- Local-Remote Start switch
- EAS plug
- TCM 35 remote control plug
- Voltmeter switch 0 - RS - ST - TR
- Four pole circuit breaker
- ELCB-GFI (Ground Fault Interruptor) 30 mA
- Terminal output with bus bar
- Output sockets 1x 230V 16A 2P+T SCHUKO
- Earth leakage with integral over-current circuit breaker for 230V 16A socket 30mA
- Earth terminal (PE)

EP6 CONTROLLER CHARACTERISTICS	
Modalità Operative	OFF - MAN. - AUTO
Display	4-digits display
LEDs	Engine is running AUTO mode
Buttons/controls	Starter key AUTO button N° 5 pulsanti per la programmazione del controller
Measures	Generator voltage Generator current Frequency Engine speed Battery voltage Charger battery voltage Hoursmeter
Alarms	Low oil pressure High temperature Belt break Low level fuel Emergency stop button Starting failure Over-under generator voltage Over-under frequency Over-under speed High-low battery voltage Overload generator Internal memory failure
Functions	Remote starting (only to AUTO) Cold start aid Automatic periodic test (only to AUTO) Generator contactor control



WEIGHT - DIMENSIONS AND ACCESSORIES

GE 55 PS



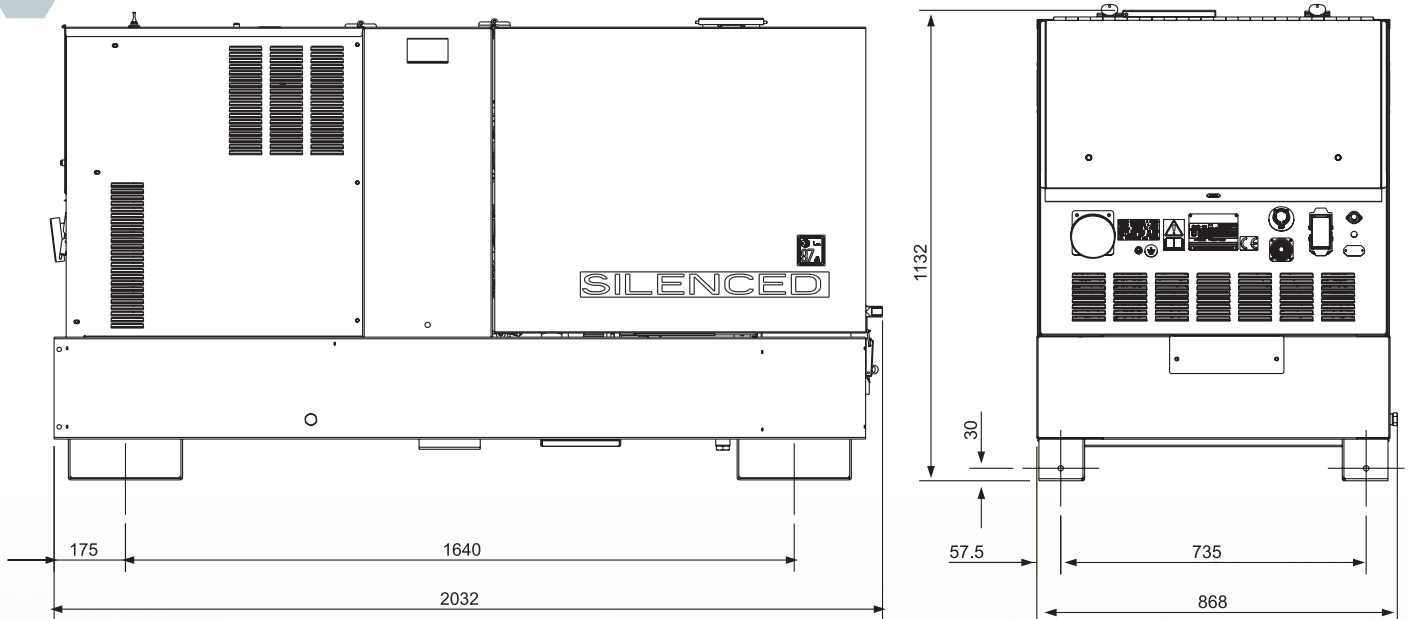
DRY WEIGHT MACHINE:

- 940 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW



OPTIONS ON REQUEST

- Automatic transfer unit EAS 76 - 809 (110A)
- Remote control TCM35
- Road trailer CTV 1/O
- Road trailer CTV 1/S
- Site tow CTL35
- Earthing kit
- Locking Fuel Cap



VERSIONS ON REQUEST

- /



FACTORY INSTALLATION OPTIONS

- Engine heater
- Gauges - water temperature and oil pressure
- Spark arrestor
- Cold start aid
- Isometer
- Radio control
- Oil drain pump

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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