GENERATING SET
GE 35 PSX

The images are for reference

FEATURES

- Automatic voltage regulation "AVR" with three-phase sensing
- 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 (AMF + ATS)
- Complies with regulation 2016/1628/EU FOR STATIONARY USE ONLY

water cooled | diesel | three-phase power | electric | super silenced

POWER RATINGS	
* Stand-By three-phase power (LTP)	33 kVA (26.4 kW) / 400 V / 47.6 A
* PRP three-phase power	30 kVA (24 kW) / 400 V / 43.3 A
* PRP single-phase power	11 kVA / 230 V / 47.6 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, NATURAL ASPIRATED	
Model	PERKINS - 1103A-33G
* Stand-By net power	30.4 kWm (41.3 hp)
* PRP net power	27.7 kWm (37.7 hp)
* COP net power	/
Cylinders / Displacement	3/ 3300 cm^3 (3.3 lt.)
Bore / Stroke	105 / 127 (mm)
Compression ratio	19.25 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	752 kPa - 684 kPa
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	7.9 lt./h
100 % to PRP	7.1 lt./h
75 % to PRP	5.4 lt./h
50 % to PRP	3.9 lt./h
COOLING SYSTEM	Water
Total system cap. - only engine	10.2 lt - 4.,4 lt
Fan air flow	53 m^3/min.
LUBRICATION SYSTEM	
Total oil system capacity	8.3 lt
Oil capacity in sump	7.8 lt ÷ 6.2 lt.
Oil consumption at full load	< 0.012 lt./h

* Output powers according to ISO 3046-1

EXHAUST SYSTEM	
Maximum exhaust gas flow	5.8 m^3/mim.
Max. exhaust gas temp.	520 °C
Maximum back pressure	8 kPa (0.08 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	3 kW
Battery charging alternator cap.	65 A
Cold start	- 10°C
With cold start aid	- 25°C
AIR FILTER	Dry
Combustion air flow	2.16 m^3/min
HEAT REJECTED AT FULL LOAD	
To exhaust system	25 kW - 1423 Btu/min.
To water and oil	18 kW - 1025 Btu/min.
Radiated to room	6.0 kW - 342 Btu/min.
To charge cooler	/

ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Continuos power	30 kVA
Stand-by power	33 kVA
Three phase voltage	380-415 Vac
Frequency	50 Hz
Cos φ	0.8
Model A.V.R.	HVR-30
Voltage regulation acc.	± 1 %
Sustained short circuit current	2.5In
Transient dip (100% load)	10 %
Recovery time	≤ 3 sec.
Efficiency at 100% load	87.1 % (400V - Cos φ 0.8)
Insulation	Class H
Connection - Terminals	Star - N°12
Electromagnetic compatibility (R.F.I. suppr.)	EN55011
Waveform distorsion - THD	< 3 %
Thelephone interference - THF	/

REACTANCES (20 kVA - 400V)	
Direct axis synchronuos - Xd	243 %
Direct axis transient - X'd	19 %
Subdirect axis transient - X"d	8 %
Quadrature axis synchronuos - Xq	135 %
Quadr. axis subtransient - X"q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	0.01 sec
Subtransient - T"d	0.005 sec
Open circuit - T'do	0.125 sec
Armature - Ta	/
Short-circuit ratio Kcc	0.58
IP protection degree	IP 23
Cooling air flow	0.115 m^3/sec.
Coupling I Bearing	Direct SAE 3 -11.5 ½ - N°1

GENERAL SPECIFICATIONS

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

* Measured acoustic power LwA (pressure LpA)	90 dB(A) (65 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	91 dB(A) (66 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 buttom
- Local-Remote Start switch
- EAS plug
- TCM 35 remote control plug
- Voltmeter switch 0 - RS - ST - TR
- Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Output sockets: 1x 400V 63A 3P+N+T
  1x 400V 32A 3P+N+T
  1x 230V 32A 2P+T
  2x 230V 16A 2P+T
- Circuit breaker for 230V 16A socket
- 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 Hight-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

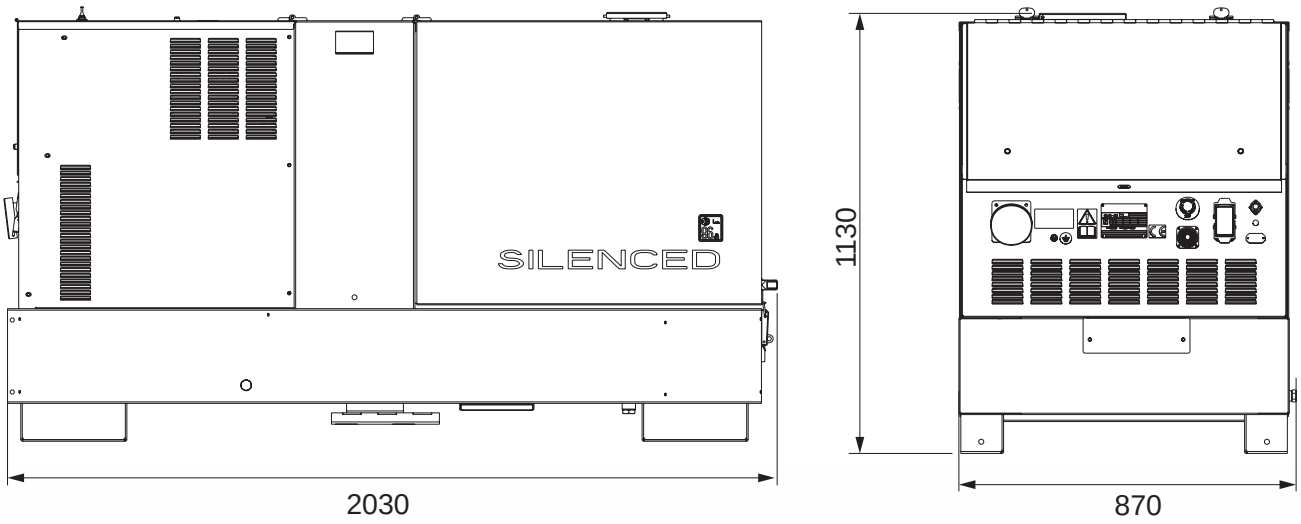
WEIGHT - DIMENSIONS AND ACCESSORIES

GE 35 PSX

DRY WEIGHT MACHINE:
- 920 Kg

Generating set pictured may include optional accessories.

DIMENSIONS DRAW



OPTIONS ON REQUEST

- Automatic transfer unit EAS 42-809 (60A)
- Remote control TCM35
- Road trailer CTV1/O
- Road trailer CTV1/S
- Locking Fuel Cap
- Earthing kit

VERSIONS ON REQUEST

- Version with SCHUKO

FACTORY INSTALLATION OPTIONS

- Radio control
- Isometer
- Spark arrestor
- Gauges - water temperature and oil pressure
- Blow-by oil gases separator filter
- Oil drain pump
- Engine water heater WH
- Cold start aid

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS
2006/42 / EC (Machinery Directive)
2014/35 / UE (Low Voltage Directive)
2014/30 / UE (Electromagnetic Compatibility Directive)
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.

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