



Image for demonstration purposes

Generating Set SUPERSILENT - diesel

GE.BD.035/032.SS+011

1500 rpm - Threephase - 50Hz - 400V
Automatic Panel with AMF without ATS



Standard equipment

⚙️ Canopy Soundproofing

Removable soundproof canopy
Painting canopy (ral) in galvanized sheet steel
Soundproofing with class 1 polyester material
Handles with key lock and automatic closing
Special baffles for air intake and air expulsion
Inspection doors for controls and maintenance

⚙️ Exhaust

Exhaust rain cap
Insulated exhaust pipes
Internal residential muffler - 35dB(A)

⚙️ Fuel Supply

Single wall daily tank with bunded base
Automatic shutdown system for low fuel level
Fuel gauge

⚙️ Handling

Lifting hook integrated into the bearing structure
Base frame with anti-overturning forklift pockets
Forkliftable on the short side

⚙️ Base Frame

Bunded base at 110% of fuel tank capacity
Anti-vibrating mounting pads
Battery compartment externally accessible for easy service

⚙️ Engine

High coolant temperature and low oil pressure shutdown system
External oil drain points
Engine liquids (oil and antifreeze)
Tropicalized radiator
Rotating parts protection
Electronic speed governor

⚙️ Alternator

Avr automatic voltage regulator
Impregnation for marine environment
Ip23

⚙️ Panel & connection

Emergency stop button
Tamperproof panel ip55
Cable output from the bottom
Ip44 wiring
Start-up battery (pre-charged)
Grounding point

⚙️ Documentation

Ce conformity declaration
User and maintenance manual
Wirings diagrams

⚙️ Normatives

All generating sets are compliant to CE marking
2014/30/UE electromagnetic compatibility
2000/14/CE noise emission for outdoor use
Factory-designed systems built according to ISO 9001:2015
CEI EN 60204-1:2018 - Electrical equipment of machines

Primary data

General Information

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	32
Prp - prime power	KW	25,6
Ltp - standby power	KVA	35
Ltp - standby power	KW	28,0
Standard voltage	V	400/230
Current	A	46,2
Cosfi	0,8	0,8

General electrical protection

Circuit-breaker rated current	A	50
Type	Magnetothermal switch on panel board	
Circuit-breaker poles	N	4P

Noise level +/- 3dB(A)

LWA	dB(A)	88
Sound pressure level @ 7 mt	dB(A)	63
Sound pressure level @ 1 mt	dB(A)	72

Fuel Consumption

Type	diesel	
Standard fuel tank capacity	lt	110
Autonomy @ 75% load	h	21
Fuel consumption at 100% load	lt/h	7,6
Fuel consumption at 75% load	lt/h	5,4
Fuel consumption at 50% load	lt/h	4,1

General data

Rated capacity	Ah	1x100
Auxiliary voltage	V	12
Exhaust gas temperature	°C	650
Exhaust diameter	mm	60

Weight and Dimensions

Dimensions (l x w x h)	cm	190x90x150
Weight with liquids (excluding optionals and fuel)	Kg (+/-3%)	913

Engine

Factory		Baudouin
Model		4M06G33/5
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	°C	50
Cooling	Tipo	liquid (water + 50% Paraflu11)
Active net power	Kwm	28,7
Nominal net power	CV	39
Cycle	Tipo	4 strokes
Aspiration	Tipo	Turbo
Numbers of cylinders	N	4
Cylinders arrangement		L
Bore	mm	89
Stroke	mm	92
Total displacement	lt	2,288
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Total oil capacity	lt	12
Total coolant capacity	lt	16
Iso 8528-5 class		G2

Alternator

*** May vary based on stock availability. However, a primary brand will be used.**

Factory		Stamford
Model		S1L2-J1
Prime power prp 3ph+n	KVA	35
Voltage regulator (voltage accuracy)	+/- %	1
Poles	N°	4
Phases	N°	3+N
Standard windings connection		Star Series
Stator/rotor impregnation		H (Outdoor Temp 40°C)
Efficiency	%	88
Engine coupling		Elastic disk
Short circuit current		>= 300% (3In)
Protection degree	IP	23
Cooling system		Self ventilating
Maxium overspeed	rpm	2250
Exciter		Diode bridge

Standard operating environmental conditions

Ambient temperature	°C	25
Relative humidity	%	30
Max altitude	mt	1000

Control Systems on board QLE-A-OSC-30



operating scheme - schema di funzionamento

QLE Multifunction panel without switching on board

The QLE command and control panel offers outstanding protection, monitoring and control for small and middle size generator sets. Elcos's control module MC2 offers advanced features to meet the most demanding on-site application. Elcos's control module MC2 is designed for offer an easy user interface. Variant without transfer switch on board. ATS panel type QC as optional. The panel manages the QC panels directly or any other ATS panel. The output line is protected by a breaker which protects from overload, short circuit.

Mechanical features

Protection degree	IP	55
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Battery charger

Model	ELCOS - CB1	
Maximum output current	A	2,5
Output dc voltage (selectable)	Vdc	12-24
Input ac voltage (selectable)	Vac	220-260
Frequency	Hz	50-60

Remotable functions in terminal box

Gs start	Gs lock
Genset contactor close/open command	Mains contactor close/open command
Common alarm - volt free output	Common alarm - dc output
Gs test without load	

Control Module



Brand	ELCOS
Model	MC2
Operating mode	AMF - MRS

Specifics

Applications

Emergency to the mains
Stand-alone

ENGINE MEASURES

Fuel tank level %
Total run time
Battery voltage
Battery charging voltage
Start-ups counter
Engine speed

ALTERNATOR MEASURES

Generator voltage I1, I2, I3
Generator voltage I1-n, I2-n, I3-n
Generator frequency

MAINS MEASURES

Mains voltage I1, I2, I3
Mains voltage I1-n, I2-n, I3-n
Mains frequency

COMMUNICATION PORTS

Configurable via pc using usb port

EQUIPMENT

Microprocessor logic
Back-lit display
Programmable by pc software
10 event log
Icons management
Stop button
Start button
Aut mode button
Reset alarm button

PRE-ALARMS/ ALARMS

Common alarm
Fuel reserve (pre-alarm)
Low fuel level (alarm)
Charge alternator failed (dinamo)
Low oil pressure (alarm)
High coolant temperature (alarm)
Battery undervoltage
Gs failure to start
Gs failure to stop
Genset overvoltage
Genset undervoltage
Genset high frequency
Genset low frequency
Maintenance request
Emergency button pressed
Genset negative phase sequence

VISUALIZATIONS ON CONTROL MODULE/DISPLAY

Pre-alarms
Alarms
Engine measures
Alternator measures
Mains measures
Operating mode
Genset status
Mains status
Mains contactor status
Genset contactor status

CONTROL MODULE FUNCTIONS

Automatic start and stop when the mains fails (7)
Remote start and stop
Manual start and stop
Emergency stop button on panel board
Remote emergency stop
Remote lock

OPTIONAL

⚙️ Canopy Soundproofing

Canopy customized painting (ral)
Double soundproofing -2 dB(A) @ 7 mt
Lift-off doors kit
Ip 43 conveyors

⚙️ Exhaust

Exhaust pipe
Exhaust manifold protection
Exhaust flexible expansion joint
Exhaust flexible pipe
(fap) anti-particulate filter
Exhaust catalyst (cat)

⚙️ Fuel Supply

Oversized tank
Fuel connections
Bulk tank connections with 3 way valve
Automatic fuel refilling system on board
Automatic fuel refilling system on trestle

⚙️ Engine

Engine pre-heater 230vsuper hot
Engine pre-heater 230v
Oil pressure and coolant temperature gauge (only with qpe or +14 variant)
Oil change pump
Engine liquids + 50°C, - 40°C (oil and antifreeze)
Battery disconnecter
Automatic refilling oil system
1000 working hours spare parts kit
Cyclone air filter
Redundant start-up battery kit

⚙️ Alternator

Avr pre-arranged for parallel
Anti-condensation heater

⚙️ Panel & connection

Rcd block
Automatic transfer switch (qc)
Elcos polyvalent panel (qpe)

PRP

Engines of this rating provide unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's prime power rating with a maximum number of 500 operational hours at 100% prime power rating. An overload capability of 10% is available, however, is limited to a period of 1 in every 12 hours

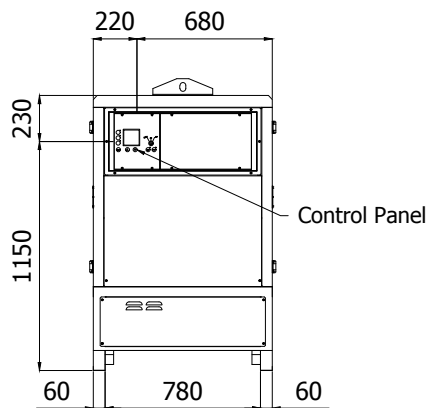
LTP

Limited-time running power is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500h of operation per year with the maintenance intervals. The overload is not allowed.

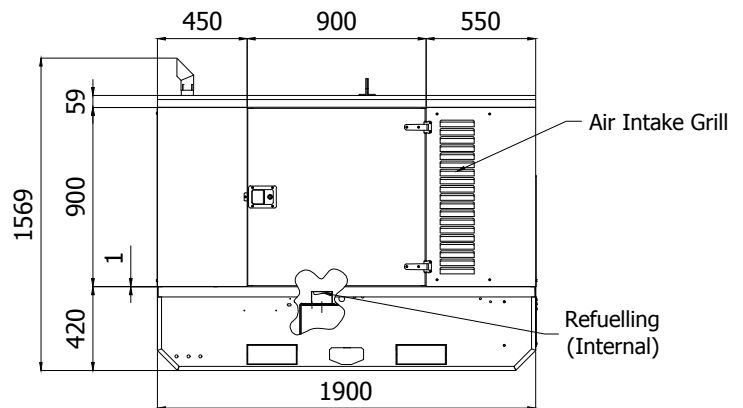
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OVERALL DIMENSIONS [mm]

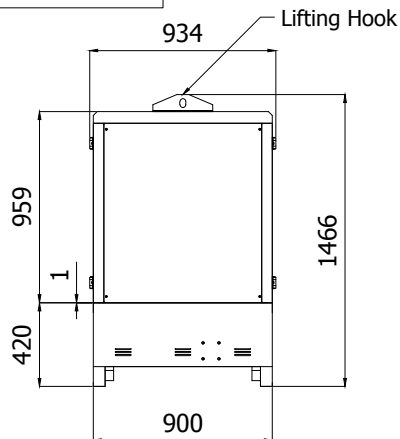
REAR VIEW



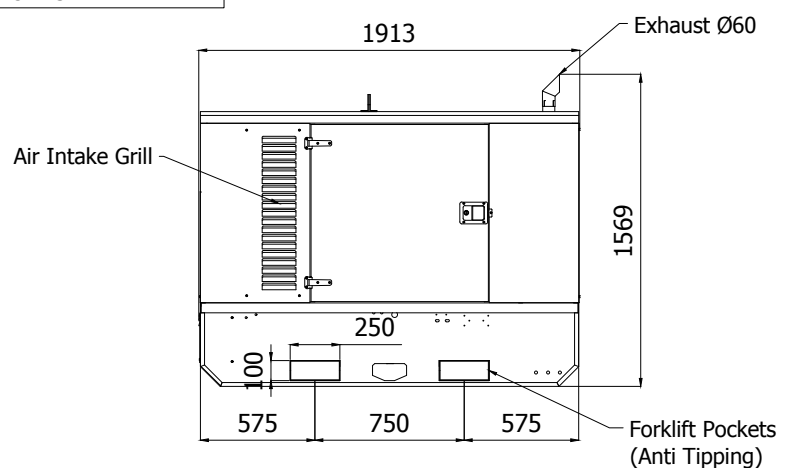
LEFT SIDE VIEW



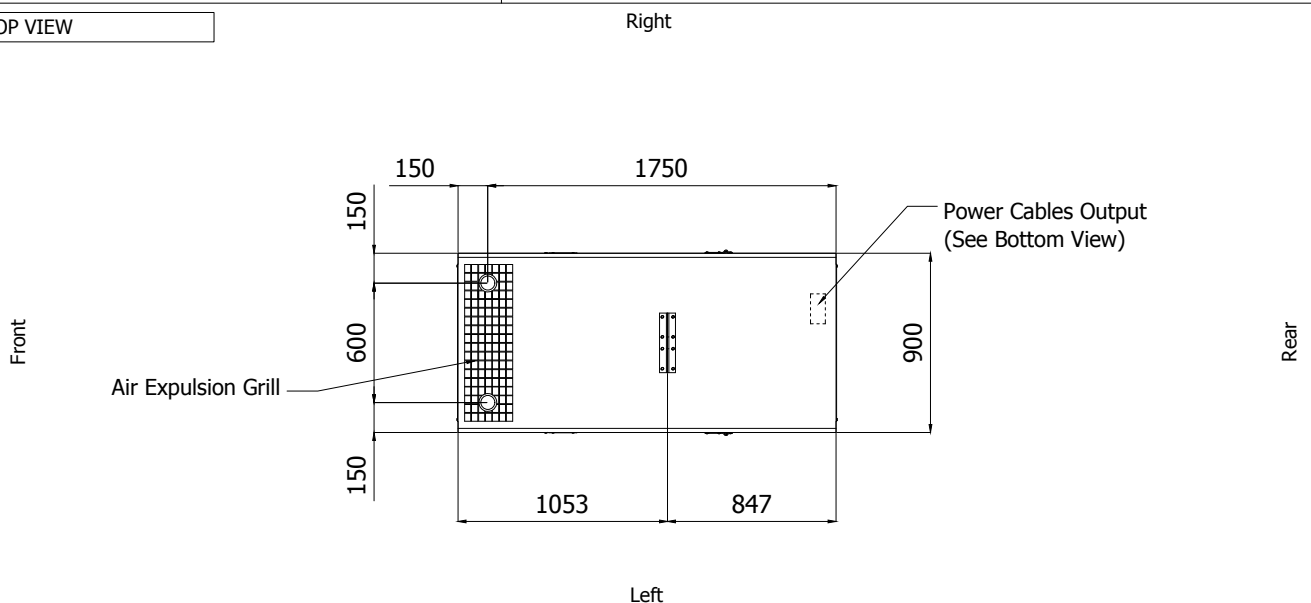
FRONT VIEW



RIGHT SIDE VIEW



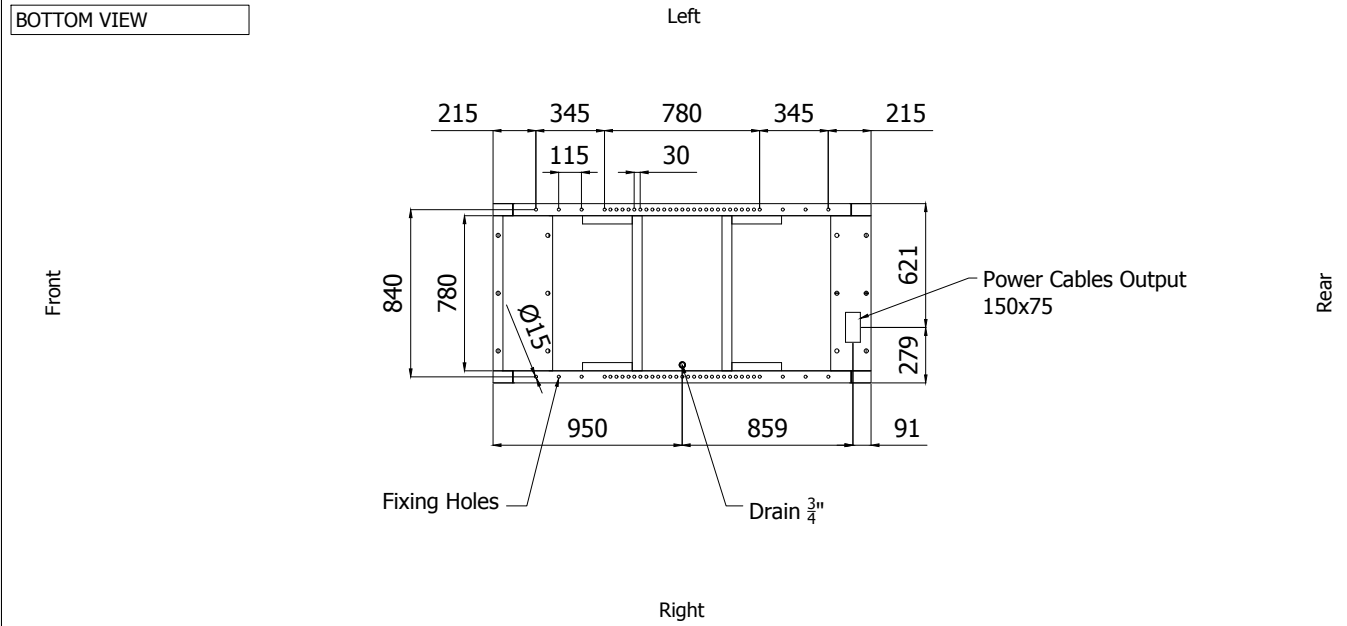
TOP VIEW



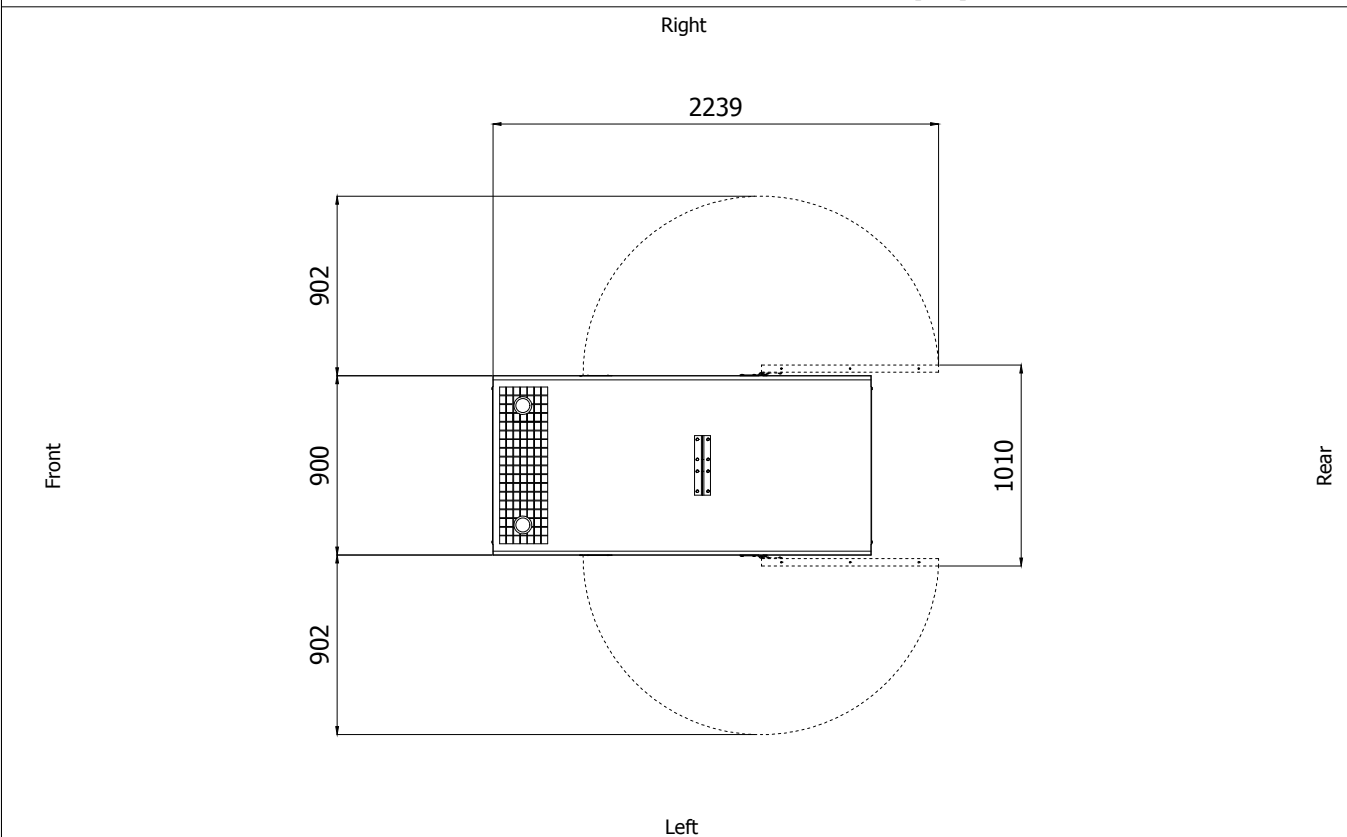
IMPORTANT:

- 1) Form and dimension refer to the generating set on catalogue
- 2) Form and dimension are subject to change in order to update or improve the products
- 3) This document can not be copied or transmitted without ELCOS S.r.l. approval

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DIMENSIONS WITH OPEN DOORS [mm]



Note: With Lifting-Off Door Solution consider only canopy dimensions.
(Models with "Control Panel" behind rear door will mount a special cover to protect it)

VENTILATION OF THE ROOM

The windows area in the generating set room needs to be (recommended):
Aspiration: 0.30 m²
Expulsion: 0.20 m²
ATTENTION: for a correct ventilation the expulsion air and the exhaust gas needs to be conveyed in the open-air

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