



Image for demonstration purposes

Generating Set PROFESSIONAL - Diesel

GE.SC.410/375.PRO+011

1500 rpm - Threephase - 50Hz - 400V Multifunction panel without switching on board



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 Inspection doors for controls and maintenance Inspection doors with hermetic gasket

Exhaust

Exhaust rain cap Insulated exhaust pipes Internal residential muffler

Fuel Supply

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

Handling

N.4 lifting hooks integrated into the bearing structure Loadable side by side for truck transportation

Base Frame

Anti-vibrating mounting pads Anti pollution bunded base

Engine

Oil pressure and coolant temperature gauge (only with qpe or +14 variant) Tropicalized radiator

Alternator

Avr automatic voltage regulator Avr pre-arranged for parallel Impregnation for marine environment

Panel & connection

Emergency stop button Magnetothermal circuit breaker on alternator board Tamperproof panel ip55 Cable output from the bottom lp44 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

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	375
Prp - prime power	KW	300,0
Ltp - standby power	KVA	410
Ltp - standby power	KW	328,0
Standard voltage	V	400/230
Current	А	541,91
Voltage for current calculation	V	400
Cosfi	0,8	0,8
General electrical protection		
Circuit-breaker rated current	А	630
Туре		Magnetothermal switch on the alternator board
Circuit-breaker poles	N	4P
Noise level +/- 3dB(A)	AD/A)	or.
LWA	dB(A)	95
Sound pressure level @ 7 mt	dB(A)	70
Sound pressure level @ 1 mt	dB(A)	79
Fuel Consumption		
Гуре		Diesel
Standard fuel tank capacity	lt .	400
Autonomy @ 75% load	h	8
Fuel consumption at 100% load	lt/h	69,4
Fuel consumption at 75% load	lt/h	52,3
Fuel consumption at 50% load	lt/h	35,9
General data		
Rated capacity	Ah	2x120
Auxiliary voltage	V	24
Exhaust gas temperature	°C	475
Exhaust diameter	mm	140
Weight and Dimensions		
Dimensions (I x w x h)	ст	395x154x220

Kg (+/-3%)

4039

Weight with liquids (excluding optionals and fuel)





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*	Eng	jin	e

Factory		Scania
Model		DC13 072A 02 11
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	$^{\circ}$	50
Cooling	Tipo	liquid (water + 50% Paraflu11)
Active net power	Kwm	320
Nominal net power	CV	434,8
Cycle	Tipo	4 strokes
Injection	Tipo	Direct
Aspiration	Tipo	Turbo
Numbers of cylinders	N	6
Cylinders arrangement		L
Bore	mm	130
Stroke	mm	160
Total displacement	lt	12,736
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Total oil capacity	lt	36
Total coolant capacity	lt	38
lso 8528-5 class		G2

Alternator

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

Factory		Stamford
Model		S4L1D-F
Single-phase range	KVA	415
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	%	93,2
Engine coupling		Elastic disk
Short circuit current		>= 300% (3In)
Protection degree	IP	23
Cooling system		Self ventilating
Maxium overspeed	rpm	2250
Waveform distortion	%	<5
Exciter		Diode bridge

Standard operating environmental conditions

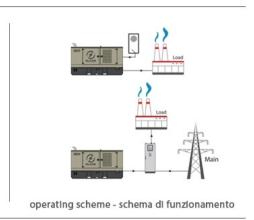
Ambient temperature	°C	25
Relative humidity	%	30
Max altitude	mt	1000





Control Systems on board QLE-A-SC-3F-V1





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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 with transfer switch on board. Switching made with a pair of contacts electrically and mechanically interlocked. The output line is protected by a breaker which protects from overload, short circuit.

Mechanical features

IP 55
Ir 33

Battery charger

Model		ELCOS - CB1
Maximum output current	Α	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
Genset contactor close/open command
Common alarm - volt free output
Gs test without load

Gs lock
Mains contactor close/open command
Common alarm - dc output





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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 l1-n, l2-n, l3-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

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

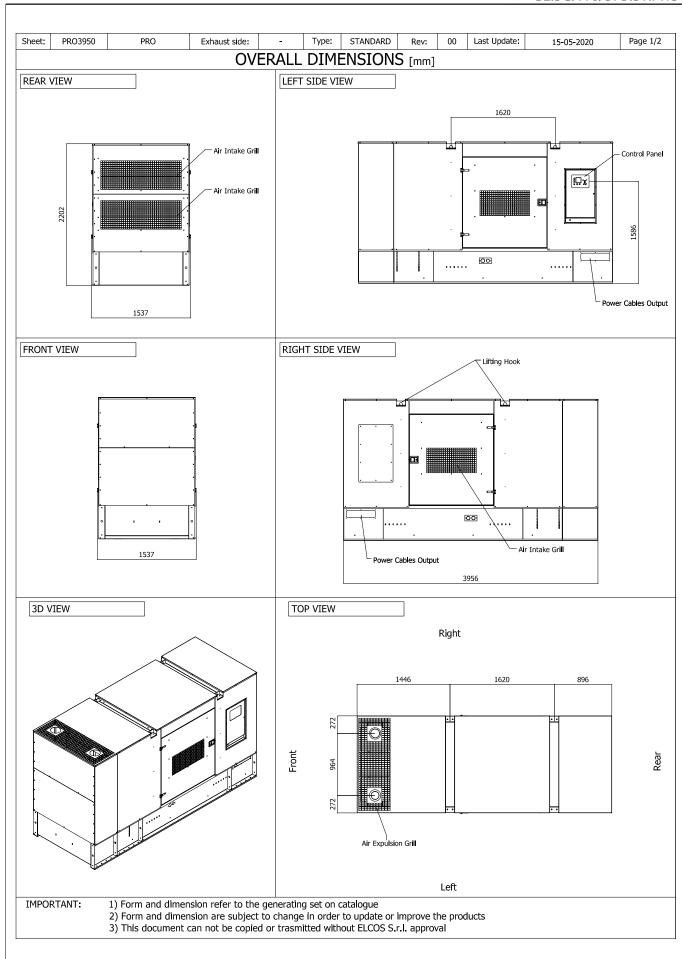
LTP

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.





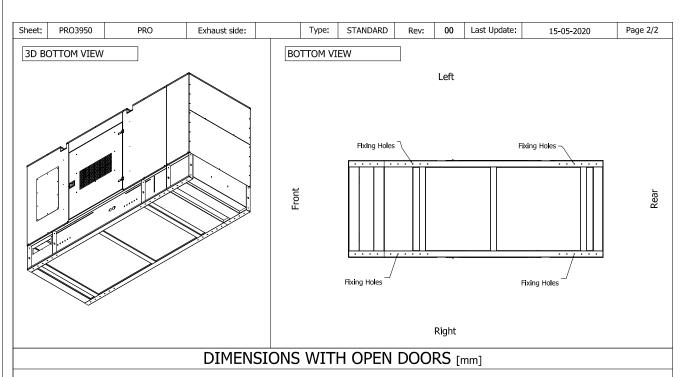
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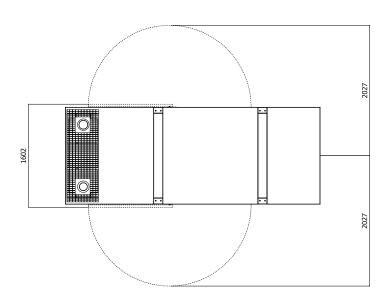




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Right



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: 0.90 m2 Expulsion: 0.60 m2

ATTENTION: for a correct ventilation the expulsion air and the exaust gas needs to be conveyed in the open-air

IMPORTANT:

Front

- 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 trasmitted without ELCOS S.r.l. approval