



Image for demonstration purposes

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

High coolant temperature and low oil pressure shutdown system Oil pressure and coolant temperature gauge (only with QPE or +14 variant) 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 Protection by controller Non-Automatic circuit breaker on panel board 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



1/9

PRO

Generating Set PROFESSIONAL - Diesel

GE.BD.150/135.PRO+011

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



Primary data

General Information

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	135
PRP - Prime power	KW	108,0
 LTP - Standby power	KVA	150
 LTP - Standby power	KW	120,0
Standard Voltage	V	400/230
Current	А	195,09
Voltage for current calculation	V	400
COSFI	0,8	0,8

General electrical protection

Rated current	А	250
Туре		Non-Automatic circuit breaker on panel board
Poles	Ν	4P
Optional/notes		Opening coil
Protection device		Control module

Noise level +/- 3dB(A)

LWA	dB(A)	94
Sound pressure level @ 7 mt	dB(A)	69
Sound pressure level @ 1 mt	dB(A)	78

Fuel Consumption

ТҮРЕ		Diesel
Standard Fuel Tank capacity	lt	250
Autonomy @ 75% load	h	11
Fuel consumption at 100% load	lt/h	30,4
Fuel consumption at 75% load	lt/h	23,1
Fuel consumption at 50% load	lt/h	15,9

General data

Rated capacity	Ah	1x120 (6M11G150/5) - 2x120 (6M11G135/6)
Auxiliary Voltage	V	12 (6M11G150/5) - 24 (6M11G135/6)
Exhaust gas temperature	°C	550
Exhaust gas flow	l/s	383
Combustion air flow	l/s	142
Cooling fan airflow	mc/s	5,1
Exhaust diameter	mm	100
Weight and Dimensions		
Dimensions (L x W x H)	ст	320x122x208
- Weight with liquids (excluding optionals and fuel)	Kg (+/-3%)	1965





Engine

Factory		Baudouin
Model		6M11G150/5
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	°C	50
Cooling	Тіро	liquid (water + 50% Paraflu11)
Active net power	Kwm	121,8
Nominal net power	CV	165,5
Cycle	Тіро	4 strokes
Aspiration	Тіро	Turbo
Numbers of cylinders	Ν	6
Cylinders arrangement		L
Bore	mm	105
Stroke	mm	130
Total displacement	lt	6,751
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Total oil capacity	lt	19
Total coolant capacity	lt	17
ISO 8528-5 class		G3

Alternator

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

Factory		Stamford
Model		UCI274E
PRP continuous power	KVA	140
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	%	91,7
 Engine coupling		Elastic disk
Short circuit current		>= 300% (3ln)
Protection degree	IP	23
Cooling system		Self ventilating
Maxium overspeed	rpm	2250
Waveform distortion	%	<5
Exciter		Diode bridge

Standard operating environmental conditions

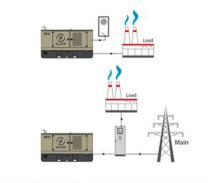
Ambient temperature	°C	25
Relative Humidity	%	30
Max altitude	mt	1000





Control Systems on board QLE-B-SC-3F-4P-250-O3





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 Plus offers advanced features to meet the most demanding on-site application. Elcos's control module MC2 Plus is designed for offer an easy user interface. Variant without transfer switch. The panel directly manages the QLTS and QC panels. The output line is protected by a magnetothermic breaker with opening coil. The overload and short-circuit protection is managed by the control board.

Mechanical features

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Battery charger

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

Data Communication

Data connection port	RS-485
- Communication protocol	Mod-bus RTU-8N1

Remotable functions in terminal box

GS start Mains contactor close/open command (2) Programmable output - Volt free output Genset contactor close/open command (1) Remote horn - DC output

(1) Ready to load function (ARS mode without QC or QLTS panel)(1) Genset contactor open and close command (AMF mode with QC or QLTS panel)(2) Mains contactor open and close command (AMF mode with QC or QLTS panel)



Control Module



Specifics

Applications Emergency to the Mains Stand-alone Construction site/Rental Self-production

ENGINE MEASURES

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

ALTERNATOR MEASURES

Generator Voltage L1, L2, L3 Generator Voltage L1-N, L2-N, L3-N Generator frequency Generator current L1, L2, L3 Generator Apparent Power kVA Generator Active Power kW

COMMUNICATION PORTS

Can-bus port RS485 port with Mod-bus RTU communication USB port for parameters saving and firmware update

EQUIPMENT

Microprocessor Logic Back-lit display Programmable from display 16 event log Icons management STOP button START button TEST button Reset alarm button Alarm mute button

PRE-ALARMS/ ALARMS

Common Alarm Fuel reserve (pre-alarm) Low fuel level (alarm) Charge alternator failed (dinamo) Low oil pressure (alarm) Oil sensor failed (alarm) High coolant temperature (alarm) Battery undervoltage Battery overvoltage GS failure to start GS failure to stop Can-bus Failure No Can-bus communication Genset overload L1, L2, L3 phases Genset short circuit Genset overvoltage Genset undervoltage Genset high frequency Genset low frequency overspeed Earth fault (alarm) Maintenance request Emergency button pressed Remote emergency active Genset negative phase sequence VISUALIZATIONS ON CONTROL

Model

MC2 Plus

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Operating mode AMF - ARS

MODULE/DISPLAY Pre-alarms Alarms Engine measures Alternator measures Operating mode Genset status Genset contactor status Glow plugs status

CONTROL MODULE FUNCTIONS

Remote Start and Stop Manual Start and stop Emergency stop button on panel board Remote emergency stop Remote test on load Scheduled start-ups MODBUS commands (Start, Stop, Reset, Test)

(2) Present according to the engine equipment and to the ECU type (ECU - Canbus)(3) Present only with the residual current device mounted on genset board(5) Present with special function activated

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OPTIONAL

Fuel Supply

O.G-ACO-AT-CI-01	External tank connections for supply only from external tank (g without tank) GE 10/100
O.G-ACO-BT-P2400-600	600 Lt Oversized Fuel Tank on board for BF/PRO(50/100 kVA), (Increased weight and size)
O.G-ACO-BT-P3200-600	600 Lt Oversized Fuel Tank on board for BF/PRO (130/150 kVA), (Increased weight and size)

Canopy

O.G-COF-PV-02 Lift off doors kit for SS versione (130/400 kVA) and PRO version (130/500 KVA)	
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Electrical on board

	O.Q-QLE-K-DIF-M3	Adjustable differential protection only for MC2-PLUS controller for Gen Sets 10/500 kVA (+011 variant)
Victorian VICTORIAN	O.Q-QLE-QBM-COM-AMF25	Additional price for QBM COMAP AMF25 panel replacing the standard QLE-A.
	O.Q-QLE-QBM-DSE-7320	Additional price for QBM DSE7320 panel replacing the standard QLE-A.
2 2 3 3 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O.Q-QLE-QPE-MC4	Additional price for QPE-C panel with MC4 replacing the standard QLE-A.

Contemporation Engine

O.G-MOT-K-40C-02	Engine liquids suitable for -40°C ambient temperature for Gen Sets 50/100 kVA
O.G-MOT-PO-01	Oil change pump for Gen Sets 10/100 kVA
 O.G-MOT-SC-AC-EL-01B	Engine pre-heater 230V with thermostat on board for Gen Sets from 130 to 500 KVA (PRO/RB)
O.G-MOT-SC-AC-EL-02	Super hot engine heater 230V with thermostat on board for Gen Sets 10/100 kVA

ATS Panels

E B B B B B B B B B B B B B B B B B B B	QLTS.160A	Wall-mounted ATS switching panel 160A 4P (110 kVA 400V) Dim. 50 x 20 x 52 cm - 20 kg.
Real Providence	QLTS.250A	Wall-mounted ATS switching panel 250A 4P (275 kVA 400V) Dim. 80 x 28 x 60 cm - 40 kg.





Data and technical specifications are subject to change in order to update or improve the products

PRP

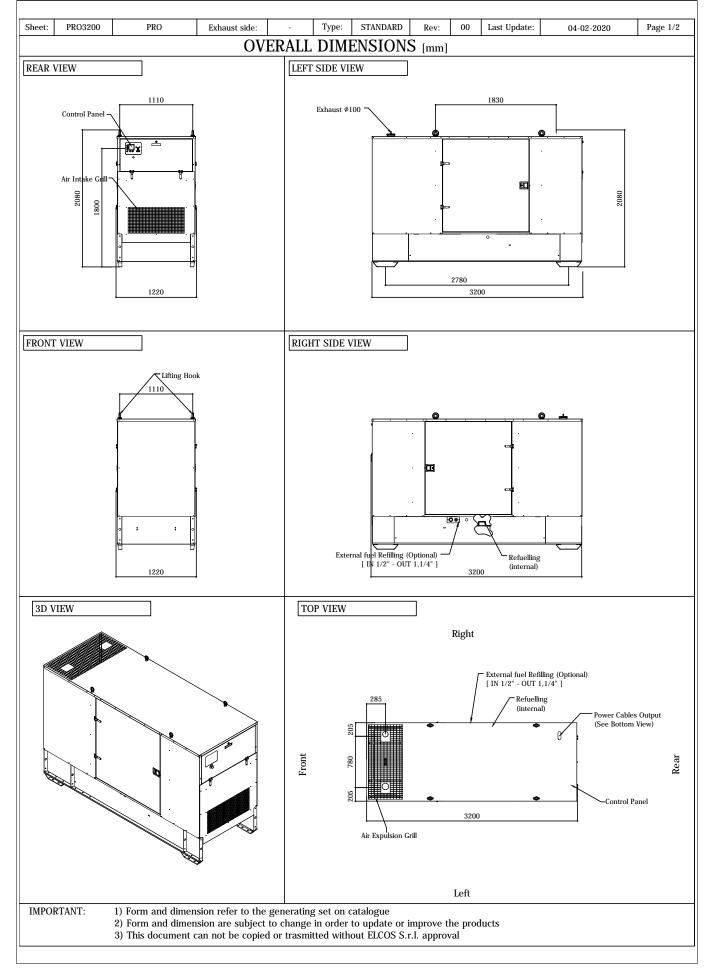
Engines of this rating provide unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's prime power rating with a maximum number of 500 operational hours at 100% prime power rating. An overload capability of 10% is available, however, is limited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