







GE.BD.1250/1125.SS+011

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



Standard equipment

Canopy Soundproofing

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 Exhaust flexible expansion joint Internal residential muffler - 35dB(A)

Fuel Supply

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

Handling

n.4 lifting hooks integrated into the bearing structure

Base Frame

Bunded base at 110% of fuel tank capacity Anti-vibrating mounting pads

Engine

Engine pre-heater 230V

High coolant temperature and low oil pressure shutdown system

Oil pressure and coolant temperature gauge (only with QPE or +14 variant)

Oil change pump

Engine liquids (oil and antifreeze)

Tropicalized radiator

Rotating parts protection

Electronic speed governor

Radiator level sensor

Alternator

AVR Automatic Voltage Regulator AVR Pre-arranged for parallel Three-phase sensing AVR Impregnation for marine environment

Panel & connection

Emergency Stop button Magnetothermal circuit breaker on alternator board Tamperproof panel IP55 Cable output from side 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

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	1125
PRP - Prime power	KW	900,0
LTP - Standby power	KVA	1250
LTP - Standby power	KW	1000,0
Standard Voltage	V	400/230
Current	Α	1625,72
Voltage for current calculation	V	400
COSFI	0,8	0,8
General electrical protection Circuit-breaker rated current	A	2000
Туре		Magnetothermal switch on the alternator board
Circuit-breaker poles	N	4P
Noise level +/- 3dB(A)	dB(A)	101
Sound pressure level @ 7 mt	dB(A)	76
Sound pressure level @ 1 mt	dB(A)	85
	dB(A)	85
Fuel Consumption	dB(A)	85 Diesel
Fuel Consumption	dB(A)	
Fuel Consumption TYPE		Diesel
Fuel Consumption TYPE Standard Fuel Tank capacity Autonomy @ 75% load	lt	Diesel 1000
TYPE Standard Fuel Tank capacity	lt h	Diesel 1000 6
Fuel Consumption TYPE Standard Fuel Tank capacity Autonomy @ 75% load Fuel consumption at 100% load	lt h lt/h	Diesel 1000 6 236,2
Fuel Consumption TYPE Standard Fuel Tank capacity Autonomy @ 75% load Fuel consumption at 100% load Fuel consumption at 75% load	lt h lt/h lt/h	Diesel 1000 6 236,2 175
Fuel Consumption TYPE Standard Fuel Tank capacity Autonomy @ 75% load Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load	lt h lt/h lt/h	Diesel 1000 6 236,2 175
Fuel Consumption TYPE Standard Fuel Tank capacity Autonomy @ 75% load Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data	lt h lt/h lt/h lt/h	Diesel 1000 6 236,2 175 119,3

Weight and Dimensions

Exhaust gas temperature

Exhaust gas flow

Combustion air flow

Cooling fan airflow

Exhaust diameter

Dimensions (L x w x h)	cm	650x240x282
Weight with liquids (excluding optionals and fuel)	Kg (+/-3%)	11442

°C

I/s

I/s

mm

550

3078

1113

19

200







Factory		Baudouin
Model		12M33G1250/5
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	°C	50
Cooling	Tipo	liquid (water + 50% Paraflu11)
Active net power	Kwm	975,4
Nominal net power	CV	1325,3
Cycle	Tipo	4 strokes
Aspiration	Tipo	Turbo
Numbers of cylinders	N	12
Cylinders arrangement		v
Bore	mm	150
Stroke	mm	185
Total displacement	lt	39,211
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Total oil capacity	lt	121
Total coolant capacity	lt	240
ISO 8528-5 class		G2

The emission levels of the exhaust gas are indicated in the engine technical datasheet. Any changes due to more restrictive regulatory adjustments are excluded.

Alternator

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

Factory		Stamford
Model		S6L1D-F
Single-phase Range	KVA	1150
Voltage Regulator (voltage accuracy)	+/- %	0,5
Poles	N°	4
Phases	N°	3+N
Standard windings connection		Star Series
Stator/rotor impregnation		H (Outdoor Temp 40°C)
Efficiency	%	95,5
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		PMG

Standard operating environmental conditions

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

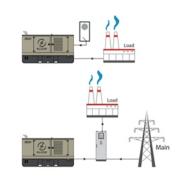




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Control Systems on board QPE-C-SC-3F-V1





operating scheme - schema di funzionamento

The QPE-C control panel represents the evolution of the panel for the control and management of the gen set. With its microprocessor logic it is able to meet any user requested features. The dual operation mode manual and automatic guarantees to every type of functionality protection, analysis and control of the generating set in order to make the management easy and efficient. Variant without transfer switch on board. ATS panel type QC as optional. The panel manages the QC panels directly or any other ATS panel.

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

Data Communication

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

Remotable functions in terminal box

GS start
Genset contactor close/open command (1)
Common Alarm - DC output
GS start with key in OFF position (Only in MRS mode)

GS lock
Mains contactor close/open command (2)
GS test without load
Programmable output - Volt free output





Model MC4 AMF - MRS Operating mode

Specifics

Applications

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

ENGINE MEASURES

Fuel tank level % Engine oil pressure BAR (1)

Engine Coolant temperature °C (1)

Total run time Partial run time

Hours to maintenance Battery voltage

Battery charging voltage

Start-ups counter Engine speed (2)

Engine Oil temperature (2)

Cooler temperature (2) Engine oil level (2)

Engine coolant level (2)

Engine coolant pressure (2)

Turbo pressure (2) Fuel Consumption (2)

Tank autonomy - hrs (5)

Fuel remaining quatity (5)

Fuel used quantity (5)

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 Generator Reactive Power kVAR

Generator accumulated power kWh

Power factor Cosfi

MAINS MEASURES

Mains voltage L1, L2, L3 Mains voltage L1-N, L2-N, L3-N

Mains frequency

COMMUNICATION PORTS

Can-bus port

RS485 port with Mod-bus RTU communication

RS232 port for display connection

USB port for parameters saving and firmware update

EQUIPMENT

Microprocessor Logic Back-lit display

Programmable from display

16 event log

Multiple display languages

STOP button

START button

TEST button

Reset alarm button

Alarm mute button

Fuel transfer pump activation button

Glow-plug activation button

PRE-ALARMS/ ALARMS

Common Alarm

Fuel reserve (pre-alarm)

Low fuel level (alarm)

Tank overflow

Charge alternator failed (dinamo)

Low oil pressure (pre-alarm) (1)

Low oil pressure (alarm)

Oil sensor failed (alarm)

High coolant temperature (pre-alarm) (1)

High coolant temperature (alarm)

Low coolant temperature (pre-alarm)

Low water level (1) Water in fuel (1)

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

Reverse power

Earth fault (pre-alarm) Earth fault (alarm)

Block from password

CAN communication Failed

Maintenance request

Emergency button pressed

Remote emergency active

Forced stop

External battery failed

Fuel theft

Genset negative phase sequence

Mains negative phase sequence

Fuel theft protection

VISUALIZATIONS ON CONTROL MODULE/DISPLAY

Pre-alarms

Alarms

Engine measures

Alternator measures

Mains measures

Date and time

Operating mode

Genset status Mains status

Mains contactor status

Genset contactor status

Digital Input and Output status

Grounding current mA (3)

Grounding current threshold mA (3)

Delay time of differential protection (3)

Glow plugs status

CONTROL MODULE FUNCTIONS

Automatic start and stop when the Mains Fails (7)

Remote Start and Stop

Remote Start and Stop with key in OFF position

Manual Start and stop

Emergency stop button on panel board

Remote emergency stop

Remote lock

Remote test without load

Remote test on load

Scheduled start-ups

MODBUS commands (Start, Stop, Reset, Test)

CONTROL MODULE SPECIAL FUNCTIONS (on demand)

Automatic charging of an external battery

Dummy load (4) Load shedding (4)

Redundant starter motor management

Fuel monitoring

GS battery Load test

Idle mode

Service phone number indication

Variable speed Generator

Master / Slave mode

(1) Present with the sensor installed on engine

(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

(4) Present with optional expansion modules

(5) Present with special function activated

(6) Only with the optional of the automatic fuel refilling system on board

(7) Only in AMF mode





OPTIONAL

AAABBB

Fuel Supply		
	O.G-ACO-AT-C3V-03	External fuel tank connections with 3-way valve for supply from internal or external tank (750/3000 kVA)
	O.G-ACO-AT-C3V-AR-03	Quick coupling connectors with 3-way valve for internal or external fuel tank connection (750/3000 kVA)
- 0 e le	O.G-ACO-AT-CI-03	External tank connections for supply only from external tank (g without tank) GE 750/3000
	O.G-ACO-BT-C6500-1800	1800 Lt Oversized Fuel Tank on board for SS (900/1000 kVA), (Increased weight and size)
	O.G-ACO-GA-01	Mechanical analogue float for internal fuel tank on board
2 ¹ /2;	O.G-ACO-GA-02	Electrical analogue float to monitor the external refilling point on board
	O.G-ACO-ST-2P	Double redundant electric pump kit for automatic fuel refilling system
	O.G-ACO-ST-BG-HDT	"Heavy Duty" automatic fuel refilling system on board, controlled by QPE-C and QLE-B panels
	O.G-ACO-ST-BG-STD	"Standard" automatic fuel refilling system on board, controlled by QPE-C and QLE-B panels
Alternator		
	O.G-ALT-AL-CHBR-06	Different brand alternator 750/1100 kVA (Check dimensions)
	O.G-ALT-AL-COTE-01	Temperature control unit up to 4 x PT100 probes for MC4 management
	O.G-ALT-ST-ACO-01	Anti-condensation heater 230 V (on Stamford from 80 to 2000 kVA)
and the second s	O.G-ALT-ST-AVR-MX321	Stamford MX321 automatic voltage regulator with PMG (Check dimensions)
	O.G-ALT-ST-AVR-MX341	Stamford MX341 automatic voltage regulator with PMG (Check dimensions)
	O.G-ALT-ST-PT100-1CU	1 x PT100 probe on bearing (80/3000 kVA)
	O.G-ALT-ST-PT100-3AV	nr. 3 RTD-PT100 probes on stator windings (80/3000 kVA)
	O.G-ALT-ST-PT100-6AV	nr. 3+3 RTD-PT100 probes on stator windings (80/3000 kVA)







O.G-ALT-ST-RIGU-01

 $\label{eq:Diode-Failure} \mbox{ Diode Failure Detector (DFD) mounted on the alternator. Alarm contact available into the panel}$

B Batteries



O.G-BAT-BNC-06 24Vdc NiCd starter batteries (750H0 KVA)



O.G-BAT-DOB-05 Redundant battery kit for Gen Sets 750/1100 kVA



O.G-BAT-STB-03 Battery isolator lockable (750/1250 kVA)

Canopy



O.G-COF-ANTI-RIL-02 Fire detection kit for containers 30,30HC,40', 40HC, for machine room



O.G-COF-AP-01 Door opening alarm system (each door)



O.G-COF-EAF-09 Frontal air expulsion for Gen Sets 900/1000 kVA (C6500) - (change the noise level)



O.G-COF-FP-02 Door stop (130/1000 kVA)



O.G-COF-IL-03 Internal LED lighting with micro-switches for Gen Sets 750/3000 kVA



O.G-COF-TRT-MAR-06 High resistance canopy treatment for corrosive environments for 750/1100 kVA (SS Version)



O.G-COF-VER-PAR-06 Canopy custom paint (Grey base-frame) for 750/1100 kVA (SS Version)



O.G-COF-VER-TOT-06 Total canopy custom paint for 750/1100 kVA (SS Version)

Container



O.CO-GR-VE-ESP-02

Frontal vertical ejection grilles for GE from 750 to 3000 kVA

Engine



O.G-MOT-FC-10

Dust collector filter - for Gen Sets 750H0 kVA



O.G-MOT-FSA-10

Fuel/Water Separator Filter - for Gen Sets 800/1000 kVA





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O.G-MOT-K-40C-06	Engine liquids suitable for -40°C ambient temperature for Gen Sets 750/1100 kVA
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O.G-MOT-MAG-05 Dual starter motor for Gen Sets 750/1100 kVA (engine configuration to be checked)





MS.CP-LT-04 FAT - Factory Acceptance Test for single Gen Set from 750 to 1100 kVA according to our standard procedures in Elcos factory (max 2 hours - max 4 people - max 1 hour of operation)



FAT - Factory Acceptance Test for single custom Gen Set from 750 to 1100 kVA max 4 operating hours or parallel system up to 4 units for 1 operating hour, in Elcos factory (max 4 hours - max 4 people)



MS.CP-ST-04

FAT - Factory Acceptance Test for single Gen Set from 750 to 1100 kVA according to our standard procedures in Elcos factory (max 4 hours - max 4 people - max 2 hour of operation)



MS.RF-ST-03 Noise test report for single Gen Set from 800 to 1500 kVA



MS.TV-ST-02 Vibration test on 10 points with certificate for single Gen Set from 275 to 3000 kVA

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.





GE.BD.1250/1125.ST.SS+011 ₩ IMPORTANT:

1) Form and dineasion refer to the generating set on calledgue 2) Form and dineasion are subject to change in order to update or improve the products 3) This document can not be copade or transmitted without ELCOS Sr.J. approval The windows area in the generating set room needs to be (recommended): Aspiration: 3,75 m2 Expuision: 2,50 m2 File: *.Pdf TTENTION: for a correct ventilation the expulsion ir and the exaust gas needs to be conveyed in the c VENTILATION OF THE ROOM REAR VIEW 2350 Air Aspiration Grill Exhaust 0200 Exhaust 0200 Air Expulsion Grill External Fuel Refilling Fuel Tank 1086 | IMPRIANT : In terms of existing susterial source sector design one put exerce operation or connection as later persons of sist separation in the copyright this drawing out not be copied, reproducted or communicated to other persons or comparise attenut the submicitations will be personal to the copyright this drawing out not be copied, reproducted or communicated to other persons or comparise attenut the submicitations of the writer. C6500 Canopy ILLOCOVILLE 467 External Fuel (Connections (optional) - 2120 Maintenance Door/ External Fuel Connections (optional) – External Fuel
Connections (optional) — 1170 2120 3470 3138 2170 (BOTTOM VIEW) (IDP VIEW) LEFT VIEW ifting Hooks 6500 Bottom Cables Passage [500x300] Optional Lateral Cables
Passage [500x170]
(optional) Lateral Cable Lateral Cables 760 LAYOUT Inspection Door Aspiration Grill Control Panel Control Panel 525 2150 300 (FRONT VIEW) 2350 2384 4400 Air Aspiration Gril Inspection Door 2800 ۴ þ 525 N. DISEGNO\DRAWING: 760 IN NOT DECEMBED. SHOUSING IN HUTDELESS
AT NOW DECEMBED. ONCE IN HET DELIES Lateral Cables
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Data and technical specifications are subject to change in order to update or improve the products.

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