







GE.MT.1260/1140.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)

40°C 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















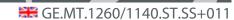
Primary data

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	1135
PRP - Prime power	KW	908,0
LTP - Standby power	KVA	1254
LTP - Standby power	KW	1003,2
Standard Voltage	V	400/230
Current	А	1640,17
Voltage for current calculation	V	400
COSFI	0,8	0,8
General electrical protection		
	А	2000
Туре		Magnetothermal switch on the alternator board
Poles	N	4P
Noise level +/- 3dB(A)	dB(A)	100
Sound pressure level @ 7 mt	dB(A)	75
Sound pressure level @ 1 mt	dB(A)	84
Fuel Consumption TYPE		Diesel
Standard Fuel Tank capacity	/t	1000
Autonomy @ 75% load	h	6
Fuel consumption at 100% load	lt/h	234,9
Fuel consumption at 75% load	lt/h	174,4
Fuel consumption at 50% load	lt/h	118,6
General data		
Rated capacity	Ah	4x180
Auxiliary Voltage	V	24
Exhaust gas temperature	°C	555
Exhaust gas flow	l/s	3300
Combustion air flow	l/s	1150
Exhaust diameter	mm	200
Weight and Dimensions		
Dimensions (L x w x h)	ст	650x240x282
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Kg (+/-3%)

10986

Weight with liquids (excluding optionals and fuel)







Factory		мти
Model		16V 2000 G36F
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	°C	40
Cooling	Tipo	liquid (water + 50% Paraflu11)
Active net power	Kwm	960
Nominal net power	CV	1304,3
Cycle	Tipo	4 strokes
Injection	Tipo	Direct
Aspiration	Tipo	Turbo
Numbers of cylinders	N	16
Cylinders arrangement		v
Bore	mm	135
Stroke	mm	156
Total displacement	lt	35,709
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Total oil capacity	lt	130
Total coolant capacity	lt	220

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

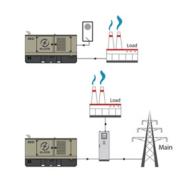
Ambient temperature	°C	25
Relative Humidity	%	30
Max altitude	mt	1000





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

Protection degree	IP	55
Totection degree	11	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

Control Module



Model MC4 Operating mode AMF - MRS

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 lovel (1)

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

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 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

viaster / 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

Fuel Supply



External fuel tank connections with 3-way valve for supply from internal or external tank O.G-ACO-AT-C3V-03 (750/3000 kVA)



Quick coupling connectors with 3-way valve for internal or external fuel tank connection O.G-ACO-AT-C3V-AR-03 (750/3000 kVA)



External tank connections for supply only from external tank (g without tank) GE 750/3000



O.G-ACO-AT-CI-03

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



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



"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



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)



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

Diode Failure Detector (DFD) mounted on the alternator. Alarm contact available into the panel





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-ANTI-VALV-02

Firewatchman thermal fuel cut off valve kit for immediate cutoff of the diesel flow in case of fire inside the canopy. Suitable only for stationary SS units from 800 to 3000KVA.



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

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

Electrical on board

O.G-USP-AR-480 Powerlock connector 480A on board for SS Version O.G-USP-AR-750 Powerlock connector 750A on board for SS Version





	O.G-USP-MO-IN-EST	Switch panel with connection bars and cable entry, mounted on the canopy
E E	O.G-USP-MPT-03	5-socket module installed on board, for Gen Sets SS +011 from 275 to 1100 kVA
生 二 経 注 * * * * * * * * * * * * * * * * * * *	O.G-USP-MPT-04	9-socket module installed on board, for Gen Sets SS +011 from 275 to 1100 kVA
	O.G-USP-SW-MOT.0750-1100	Motorization switch in switch panel on board machine for Ge from 750/1100 Kva - (for variant +11)
	O.Q-QBM-BMIN-230V-02	Additional price for 230V minimum voltage coil on MCCB both on the control panel and on the alternator (check feasibility)
	O.Q-QBM-CPI-BEN-01	Permanent insulation controller for IT networks up to 230V / 400V. BENDER IR423-D4-1. Adjustable threshold 10 \div 300 kohm. (2 DIN rail modules - check feasibility)
	O.Q-QPA-COM-GC500	Option with COMAP GC500 controller on board instead of InteliGen 200.
	O.Q-QPA-COM-NTCBB	Option with COMAP INTELIGEN controller on board instead of InteliGen 200.
	O.Q-QPA-LOV-RGK900	Option with LOVATO RGK900 controller on board instead of InteliGen 200.
	O.Q-QPE-485.CONV-LAN	Converter 485/LAN for QPE-C, QLE-B panel
19	O.Q-QPE-485.CONV-USB	Converter 485/USB for QPE panel
59	O.Q-QPE-485.CONV-USB O.Q-QPE-DIS-MS.01	Converter 485/USB for QPE panel MASTER/SLAVE device for QPE panel
59		
59	O.Q-QPE-DIS-MS.01	MASTER/SLAVE device for QPE panel
9	O.Q-QPE-DIS-MS.01 O.Q-QPE-K-DIF	MASTER/SLAVE device for QPE panel Differential protection adjustable for the MC4
9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O.Q-QPE-DIS-MS.01 O.Q-QPE-K-DIF O.Q-QPE-MD-QPE-C	MASTER/SLAVE device for QPE panel Differential protection adjustable for the MC4 GSM remote management modem for QPE panel
	O.Q-QPE-DIS-MS.01 O.Q-QPE-K-DIF O.Q-QPE-MD-QPE-C O.Q-QPE-POT-VOLT	MASTER/SLAVE device for QPE panel Differential protection adjustable for the MC4 GSM remote management modem for QPE panel Internal potentiometer for voltage regulation - available only for variant +10/+11
	O.Q-QPE-DIS-MS.01 O.Q-QPE-K-DIF O.Q-QPE-MD-QPE-C O.Q-QPE-POT-VOLT O.Q-QPE-PR-QPE-C	MASTER/SLAVE device for QPE panel Differential protection adjustable for the MC4 GSM remote management modem for QPE panel Internal potentiometer for voltage regulation - available only for variant +10/+11 Remote panel for QPE-C, QLE-B - available only for variant +10/+11
	O.Q-QPE-DIS-MS.01 O.Q-QPE-K-DIF O.Q-QPE-MD-QPE-C O.Q-QPE-POT-VOLT O.Q-QPE-PR-QPE-C O.Q-QPE-QBM-COM-AMF25	MASTER/SLAVE device for QPE panel Differential protection adjustable for the MC4 GSM remote management modem for QPE panel Internal potentiometer for voltage regulation - available only for variant +10/+11 Remote panel for QPE-C, QLE-B - available only for variant +10/+11 Option with QBM COMAP AMF25 controller on board instead of QPE





		GE.M1.1260/1140.S1.SS-
START (A)	O.Q-QPE-SAS-02	Auto Start-Stop at load request (QPE, QLE panels)
	O.Q-QPE-SCD-01	Anti-condensation heater inside the panel
Li.	O.Q-QPE-SEL-50-60	Switch selector 50Hz 400V / 60Hz 480V
	O.Q-QPE-TG-EVO-GPS-2G	Remote management system via LAN/GSM 2G with WEB application and GPS location system
	O.Q-QPE-TG-EVO-GPS-3G	Remote management system via LAN/GSM 3G with WEB application and GPS location system
	O.Q-QPE-TG-QPE-C	Remote management software via LAN for QPE-C, QLE-B panel compatible with Windows XP and 7
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
400	O.G-MOT-K-40C-06	Engine liquids suitable for -40°C ambient temperature for Gen Sets 750/1100 kVA
	O.G-MOT-MAG-05	Dual starter motor for Gen Sets 750/1100 kVA (engine configuration to be checked)
	O.G-MOT-SC-AC-EL-05	Super hot engine heater 230V with thermostat on board for Gen Sets 750/1100 kVA
	O.G-MOT-SC-AC-WE-03	Webasto diesel-operated water pre-heater (450/1100 kVA)
>	O.G-MOT-SE-LR-03	Radiator coolant level sensor from 750 to 3000 kVA
Handling		
100	O.G-MOV-CO-ST-08	Roadworthy trailer 80km/h (750/1000 kVA), registration excluded.
ATS Panels		
© i	QC4.2000A	Separate ATS panel, ABB 2000A motorized change-over (1400 kVA 400V) Dim. 80 x 80 x 190 cm - 310 kg. (ex QC4.1400)

Separate ATS switching panel, with Lovato ATL 610 control unit, for variant +014, ABB

motorized change-over 1600A 4P (1100kva 400V) and compartment for power cables inlet

QCP4.1600A





Parallel panels

	1
3	

QP.APM5.1600A

APM Automatic Parallel Module Comap InteliVision5 logic with motorized breaker (1600A) for gen set from 900 to 1150kVA.Dim. cm. $80 \times 60 \times 190H$.

C Exhaust



O.G-SCA-CAT-09

Catalytic converter (750/1100 kVA)



O.G-SCA-FAP-K1000

Particulate filter (DPF) for Gen Sets 900/1100 kVA



O.G-SCA-PF-06

Spark arrestor for Gen Sets 750/1100 kVA

Test



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)



MS.CP-SP-04

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

Vari



O.G-VAR-CAT-03

Toolbox for ordinary maintenance.

O.G-VAR-PUN-TER-01

Round earth spike, diam. 20 mm, height 1.5mt, galvanized, complete with clamp and 3m yellow/green cable model FS17 1x35mm² with cable lugs.

O.G-VAR-PUN-TER-02

Cross-shaped earth spike, height 1.5mt, galvanized, complete with clamp and 3m yellow/green cable model FS17 1x35mm² with cable lugs.



O.G-VAR-TPD-01

IP 55 document holder

PRP

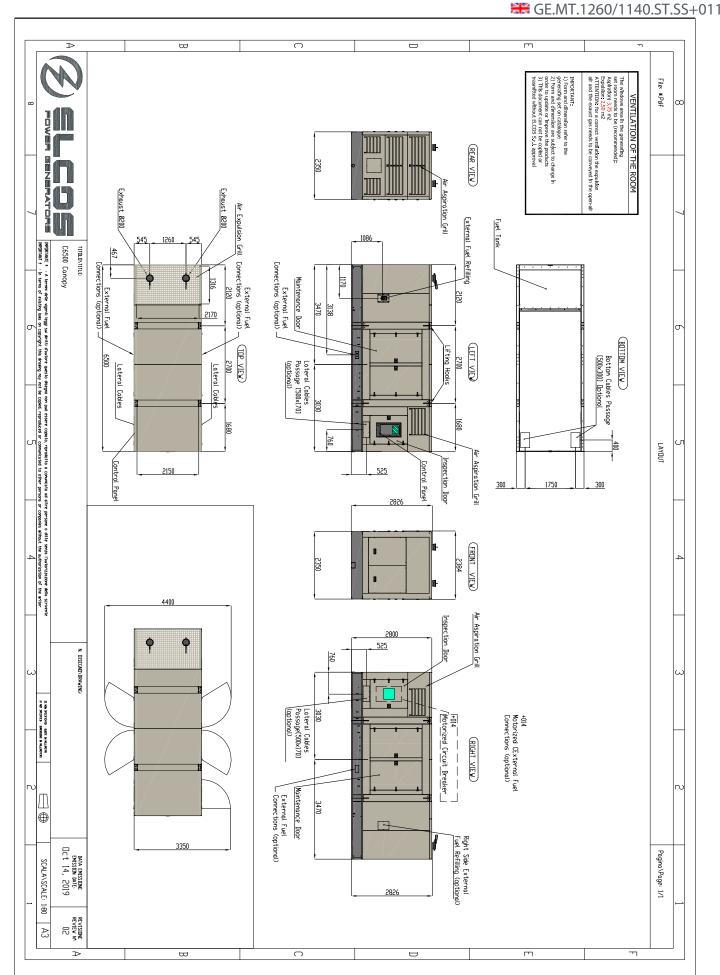
Engines of this rating provide unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's prime power rating with a maximum number of 500 operational hours at 100% prime power rating. An overload capability of 10% is available, however, is limited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







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