





Generating Set TELECOM - Diesel

GE.DZA.066/060.TLC+011

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



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 lockable Special baffles for air intake and air expulsion Inspection doors with hermetic gasket Doors hinges with anti-tampering device

Exhaust

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

Fuel Supply

Oversized Tank 1000lt fuel tank with draining point Bulk tank connections Automatic shutdown system for low fuel level Fuel gauge Fuel refilling from outside

Handling

Lifting hook integrated into the bearing structure Base frame with anti-overturning forklift pockets Removable tank from the generator

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)

Alternator

AVR Automatic Voltage Regulator Impregnation for marine environment IP23

Panel & connection

Emergency Stop button Non-Automatic circuit breaker on panel board Tamperproof panel IP55 Cable output from side IP44 wiring Start-up battery (pre-charged) Grounding point

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

| peed | RPM | 1500 |
|---------------------------------|-------|--|
| requency | Hz | 50 |
| PRP | KVA | 60 |
| PRP - Prime power | KW | 48,0 |
| LTP - Standby power | KVA | 65 |
| TP - Standby power | KW | 52,0 |
| Standard Voltage | V | 400/230 |
| Current | А | 86,71 |
| /oltage for current calculation | V | 400 |
| COSFI | 0,8 | 0,8 |
| General electrical protection | | |
| Rated current | А | 100 |
| Туре | | Non-Automatic circuit breaker on panel board |
| Poles | Ν | 4P |
| Optional/notes | | Opening coil |
| 🛱 Noise level +/- 3dB(A) | | |
| LWA | dB(A) | 93 |
| Sound pressure level @ 7 mt | dB(A) | 68 |
| Sound pressure level @ 1 mt | dB(A) | 77 |
| Fuel Consumption | | |
| ТҮРЕ | | Diesel |
| Standard Fuel Tank capacity | lt | 1000 |
| Autonomy @ 75% load | h | 103 |
| Fuel consumption at 100% load | lt/h | 12,9 |
| Fuel consumption at 75% load | lt/h | 9,8 |
| Fuel consumption at 50% load | lt/h | 7,1 |
| 🛱 General data | | |
| Rated capacity | Ah | 1x120 |
| Auxiliary Voltage | V | 12 |
| Exhaust gas temperature | °C | 500 |
| Exhaust gas flow | l/s | 198 |
| Combustion air flow | l/s | 72,7 |
| Exhaust diameter | mm | 80 |
| Weight and Dimensions | | |
| Dimensions (L x w x h) | ст | 225x110x215 |
| | Citt | 22371107213 |





Engine

| | Deutz |
|------|---|
| | |
| | F6L 912 |
| | Stage 0 |
| | Mechanic |
| Tipo | Aria |
| Kwm | 54 |
| CV | 73,4 |
| Tipo | 4 strokes |
| Tipo | Direct |
| Tipo | Natural |
| Ν | 6 |
| | L |
| mm | 102 |
| mm | 132 |
| lt | 4,312 |
| | 15W40-API CI-4/CH-4 ACEA E5-E7 |
| lt | 13,5 |
| | G2 |
| | Kwm CV Tipo Tipo N N mm mm It |

Alternator

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

| Factory | | Stamford | |
|--------------------------------------|-------|-----------------------|--|
| Model | | S1L2-Y1 | |
| Single-phase Range | KVA | 62,5 | |
| 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 | % | 90,1 | |
| 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 | |

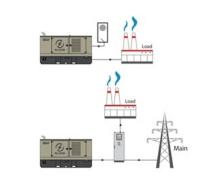
| Ambient temperature | °C | 25 |
|---------------------|----|------|
| Relative Humidity | % | 30 |
| Max altitude | mt | 1000 |





Control Systems on board QPE-C-SC-3F-4P-100-O2TLC





operating scheme - schema di funzionamento

$\ensuremath{\textbf{QPE}}$ Automatic panel without switching on board

The QPE-C control panel represents the evolution of the panel for the control and managment 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 managment 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

|--|

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 |



Control Module



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 kWA 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

Model MC4 Operating mode AMF - MRS

VISUALIZATIONS ON CONTROL MODULE/DISPLAY

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

EOUIPMENT

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

Carl Supply

| - die | 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-TLC-2000 | 2000 Lt Oversized Fuel Tank on board for TLC replacing the 1000 lt standard tank (20/60 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-BG-ES1 | "Easy" 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-02 | Different brand alternator 50/100 kVA (Check dimensions) |
|--------------------|--|
| | |

Batteries

ł.

| O.G-BAT-BAE-02 | Maintenance free high efficiency starter batteries (50/100 kVA) |
|----------------|---|
| O.G-BAT-STB-01 | Battery isolator lockable (10/100 kVA) |

Canopy

| O.G-COF-AP-01 | Door opening alarm system (each door) |
|------------------------|--|
| O.G-COF-DLO-C2200-15KW | Dummy Load 15kW on board for GE 50/60 kVA |
| O.G-COF-IL-01 | Internal LED lighting with micro-switches for Gen Sets 10/250 kVA |
| O.G-COF-TET-C220 | Pitched roof for TLC 45/60 kVA (C2200) |
| O.G-COF-TRT-MAR-02 | High resistance canopy treatment for corrosive environments for 50/100 kVA (SS, RB Versions) |
| O.G-COF-VER-PAR-02 | Canopy custom paint (Grey base-frame) for 50/100 kVA (SS, RB Versions) |





| 0.6-COF-VEB-TOT-02 Total canopy custom paint for S0/100 kVA (SS, RB Version) 0.9-QBM-BMIN-2300-02 Additional price for 2300 minimum voltage coil on MCCB both on the control panel and on the difference in t | | | GE.DZA.000/060.51.1LC |
|---|---------------|-----------------------|---|
| 0.0.028M-38MIH-230V-20 Additional price for 230V minimum voltage coil on MCCB both on the control panel and on the alternator (check feasibility) 0.0.028M-CPI-BEN-01 Remanent insulation controller or IT networks up to 230V / 400V, BENDER IR423-D4-1. 0.0.028F-4B5.CONV-LAN converter 485/LAN for QPE-C, QLE-B panel 0.0.028F-4B5.CONV-LSD converter 485/LSB for QPE panel 0.0.028F-4B5.CONV-LSD MASTER/SLAVE device for OPE panel 0.0.028F-4B5.CONV-LSD MASTER/SLAVE device for OPE panel 0.0.028F-4B5.CONV-LSD Differential protection adjustable for the MC4 0.0.028F-4DF GMORTER management modem for OPE panel 0.0.028F-4DF GMORTER management modem for OPE panel 0.0.028F-4DF GMORTER management modem for OPE panel 0.0.028F-4DF Option with QBM DSF7320 controller on board instead of QPE. 0.0.028F-4DF-C Safer soft and protection adjustable for the MC4 0.0.028F-4DF-C Geneter management modem for QPE panel 0.0.028F-4DF-C Option with QBM DSF7320 controller on board instead of QPE. 0.0.028F-4DF-C Safer soft and request (QPE, QLE panels) 0.0.028F-4DF-C Safer soft and and request (QPE, QLE panels) 0.0.028F-4DF-C Safer soft and request (QPE, QLE panels) 0.0.028F-4DF-C Safer soft | | O.G-COF-VER-TOT-02 | Total canopy custom paint for 50/100 kVA (SS, RB Versions) |
| UC QBM-BANIN-250U-02 the alternator (check feasibility) UC QBM-CPI-BEN-01 Permanent insulation controller for IT networks up to 230V / 400V. BENDER IR423-D4-1. Adjustable threshold 10 + 300 kohm. (2 DIN rail modules - check feasibility) UC QBM-CPI-BEN-01 Converter 485/LAN for QPE-C, QLE-B panel UC QPE-485.CONV-LAN Converter 485/USB for QPE panel UC Q-QPE-485.CONV-USB Converter 485/USB for QPE panel UC Q-QPE-486.COM-AME25 CSM remote management modern for QPE panel UC Q-QPE-480.COM-AME25 Option with QBM COMAP AMF25 controller on board instead of QPE US Q-QPE-481.LISBELE 16-relay module for QPE panel US Q-QPE-5A5-02 Control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel) US Q-QPE-5A5-02 Remote management system via LAN/GSM 2G with WEB application and GPS location US Q-QPE-5A5-02 Remote management system via LAN/GSM 3G with WEB application and GPS location US Q-QPE-5C-6UPS-5G5 Remote management software via LAN for QPE | Electrical on | board | |
| O.Q-QBI-CLPIERCOT Adjustable threshold 10 = 300 kohm. (2 DIN rail modules - check feasibility) O.Q-QPE-485.CONV-LAN Converter 485/LAN for QPE-C, QLE-B panel O.Q-QPE-485.CONV-USB Converter 485/LAN for QPE panel O.Q-QPE-485.CONV-USB Differential protection adjustable for the MC4 O.Q-QPE-ROPE-C Remote management modem for QPE panel O.Q-QPE-ROPE-C Remote panel for QPE-C, QLE-B - available only for variant +10/+11 O.Q-QPE-QBM-COM-AMF25 Option with QBM D5E7320 controller on board instead of QPE O.Q-QPE-QBM-D5E-7320 Option with QBM D5E7320 controller on board instead of QPE. O.Q-QPE-RRL-16RELE 16-relay module for QPE panel O.Q-QPE-RAS-02 Start-stop radio control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel). O.Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/G5M 3G with WEB application and GPS location system system. I.O.Q-QPE-TG-EVO-GPS-36 Remote management system via LAN for QPE-C, QLE-B panel compatible with Windows system. | | O.Q-QBM-BMIN-230V-02 | |
| • • • • • • • • • • • • • • • • • • • | | O.Q-QBM-CPI-BEN-01 | |
| O.Q-QPE-DIS-MS.01 MASTER/SLAVE device for QPE panel O.Q-QPE-K-DIF Differential protection adjustable for the MC4 O.Q-QPE-MD-QPE-C GSM remote management modem for QPE panel O.Q-QPE-RMD-QPE-C Remote panel for QPE-C, QLE-B - available only for variant +10/+11 O.Q-QPE-QBM-COM-AMF25 Option with QBM COMAP AMF25 controller on board instead of QPE O.Q-QPE-QBM-DSE-7320 Option with QBM DSE7320 controller on board instead of QPE. O.Q-QPE-RIL-I6RELE 16-relay module for QPE panel O.Q-QPE-RX8-QPE-C Start-stop radio control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel) O.Q-QPE-RIL-I6RELE 16-relay module for QPE, QLE panels) O.Q-QPE-RX8-QPE-C Remote management system via LAN/GSM 2G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and | | O.Q-QPE-485.CONV-LAN | Converter 485/LAN for QPE-C, QLE-B panel |
| Q.Q-QPE-K-DIF Differential protection adjustable for the MC4 Q.Q-QPE-MD-QPE-C GSM remote management modem for QPE panel Q.Q-QPE-RAPC-QPE-C Remote panel for QPE-C, QLE-B - available only for variant + 10/+ 11 Q.Q-QPE-QBM-COM-AMF25 Option with QBM COMAP AMF25 controller on board instead of QPE Q.Q-QPE-QBM-DSE-7320 Option with QBM DSE7320 controller on board instead of QPE. Q.Q-QPE-RIL-16RELE I-relay module for QPE panel Q.Q-QPE-RAS-OPE-C Sart-stop radio control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel). Q.Q-QPE-RAS-OPE-C Auto Start-Stop at load request (QPE, QLE panels) Q.Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location system via LAN/GSM 2G with WEB application and GPS location Q.Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location Q-QPE-TG-EVO-GPS-26 Remote management system via LAN/GSM 2G with WEB application and GPS location | \$9 | O.Q-QPE-485.CONV-USB | Converter 485/USB for QPE panel |
| O.Q-OPE-MD-OPE-CGSM remote management modem for QPE panelImage: Image: | | O.Q-QPE-DIS-MS.01 | MASTER/SLAVE device for QPE panel |
| Image: Signal systemRemote panel for QPE-C, QLE-B - available only for variant +10/+11Image: Signal systemo.q.OPE-QBM-COM-AMF22Option with QBM COMAP AMF25 controller on board instead of QPEImage: Signal systemo.q.OPE-QBM-COM-AMF23Option with QBM COMAP AMF25 controller on board instead of QPE.Image: Signal systemo.q.OPE-QBM-DSE-7320Option with QBM DSE7320 controller on board instead of QPE.Image: Signal systemo.q.OPE-RIL-16RELEI-relay module for QPE panelImage: Signal systemo.q.OPE-RX8-QPE-CStart-stop radio control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel).Image: Signal systemo.q.OPE-TG-EVO-GPS-20Remote management system via LAN/GSM 2G with WEB application and GPS location systemImage: Signal systemo.q.OPE-TG-EVO-GPS-20Remote management system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB application and GPS location system via LAN/GSM 3G with WEB applicat | | O.Q-QPE-K-DIF | Differential protection adjustable for the MC4 |
| Image: Constraint of the constraint | | O.Q-QPE-MD-QPE-C | GSM remote management modem for QPE panel |
| Image: And the image | 08Fc08 | O.Q-QPE-PR-QPE-C | Remote panel for QPE-C, QLE-B - available only for variant +10/+11 |
| Image: Sector of the sector | | O.Q-QPE-QBM-COM-AMF25 | Option with QBM COMAP AMF25 controller on board instead of QPE |
| Image: Constraint of the constraint | | O.Q-QPE-QBM-DSE-7320 | Option with QBM DSE7320 controller on board instead of QPE. |
| Image: Construction of the system of the | | O.Q-QPE-RIL-16RELE | 16-relay module for QPE panel |
| Image: Complete the system of a law of the system of | | O.Q-QPE-RX8-QPE-C | Start-stop radio control with max. radius 500 mt indoors and 5 km outdoors (for QPE panel). |
| O.Q-QPE-TG-EVO-GPS-2G system System No.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 | START STOP | O.Q-QPE-SAS-02 | Auto Start-Stop at load request (QPE, QLE panels) |
| O.Q-QPE-TG-EVO-GPS-3G system O.Q-QPE-TG-QPE-C Remote management software via LAN for QPE-C, QLE-B panel compatible with Windows XP and 7 | | O.Q-QPE-TG-EVO-GPS-2G | |
| XP and 7 | | O.Q-QPE-TG-EVO-GPS-3G | |
| Engine | | O.Q-QPE-TG-QPE-C | |
| | Engine | | |



O.G-MOT-FC-3

Dust collector filter - for Gen Sets 50/60 kVA



I GE.DZA.066/060.ST.TLC+011

| | O.G-MOT-FSA-3 | Fuel/Water Separator Filter - for Gen Sets 50/60 kVA |
|-------|--------------------|---|
| > | O.G-MOT-SE-LR-01 | Radiator coolant level sensor from 10 to 100 Kva |
| de la | O.G-MOT-SE-PO-LR | Oil pressure level and engine temperature sensors (from 10 to 100kVA) |
| | O.G-MOT-SRO-AU-18L | Automatic oil refilling system (50/100 kVA) |
| | | |

ATS Panels



| 2 2 | QC1.0090A | Separate ATS panel, 4P - 90A contactors (60 kVA 400V - 40 kVA 230V) Dim. 60 x 25 x 80 cm - 48 kg. (ex QC1.060) |
|--------|-----------|---|
| | QLTS.100A | Wall-mounted ATS switching panel 100A 4P (65 kVA 400V - 35 kVA 230V) Dim. 45 x 16 x 40 cm - 12 kg. |

Contemporate Exhaust

| O.G-SCA-PF-02 Spark arrestor for Gen Sets 5 | 0/100 kVA |
|---|-----------|
|---|-----------|

O Test

| MS.CP-LT-01 | FAT - Factory Acceptance Test for single Gen Set from 10 to 100 kVA according to our standard procedures in Elcos factory (max 2 hours - max 4 people - max 1 hour of operation) |
|-------------|--|
| MS.CP-SP-01 | FAT - Factory Acceptance Test for single custom Gen Set from 10 to 100 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-01 | FAT - Factory Acceptance Test for single Gen Set from 10 to 100 kVA according to our standard procedures in Elcos factory (max 4 hours - max 4 people - max 2 hour of operation) |
| MS.RF-ST-01 | Noise test report for single Gen Set from 10 to 250 kVA |

🗘 Vari

| O.G-VAR-CAT-01 | 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 1x35mm ² 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 1x35mm ² with cable lugs. |
| O.G-VAR-TPD-01 | IP 55 document holder |





PRP

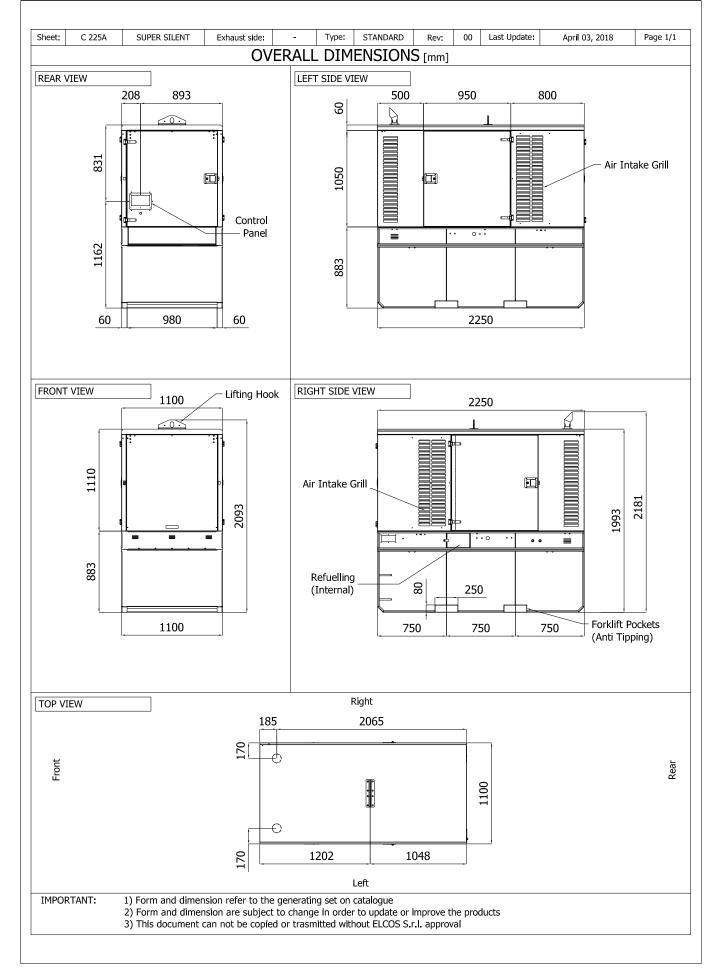
Engines of this rating provide unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's prime power rating with a maximum number of 500 operational hours at 100% prime power rating. An overload capability of 10% is available, however, is limited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



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