



Generating Set Diesel

GE.CU.1390/1260.SS+011

Standard Equipment and features

Canopy - Soundproofing

- Soundproof canopy IP 32 removable
- Polyester class1 soundproofing
- Snap handles with key lock
- Air inlet and air outlet Winding protection against water
- Inspection doors located to facilitate controls and servicing

Exhaust

- Rain cap
- Exhaust collectors protection
- Exhaust tubes protection guards
- Exhaust flexible joint
- External residential muffler -35 dbA

Fuel supply

- Diesel connections
- Low fuel level shutdown automatic system

Handling

• 4 lifting lugs with integrated lifting structure

Base Frame

• Anti vibrating mounting pads

Engine

- Engine heater 230 V
- High coolant temperature and low oil pressure shutdown system
- Oil pressure & antifreeze temperature gauge
- Oil change pump
- Engine liquids (oil and antifreeze)
- Tropicalized radiator
- Rotating components protection guards

Alternator

Parallel arranged AVR

Protection & connection Panel

- Magneto-thermal protection on alternator (adjustable only on variant +10 & +11)
- Emergency stop button
- Tamper proof panel
- Power cable outlet from side
- Earth leakage point
- Machine electric wiring IP 44
- Startup battery (pre-charged)

Documentation

• CE conformity declaration - User and maintenance manuals

Normatives

- All ELCOS Generating sets are compliant to CE Marking
- 2004/108/CE Electromagnetic compatibility
- 2000/14/CE Noise Emission for outdoor use
- Factory-designed systems built at Elcos ISO 9001:2008



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Generating Set			
Speed	rpm	1500	
Frequency	Hz	50	
PRP Prime power	kVA	1260	
Prime power (cosfi 0,8)	KW	1008	
LTP Limited-time running power	kVA	1386	
Limited time running pow. (cosfi 0,8)	KW	1108,8	
Voltage standard	V	400/230	
Current PRP (cosfi 0,8)	Α	1821	
Noise level			
LwA	dB(A)	99	
Acoustic pressure level to 7 mt	dB(A)	74	
Acoustic pressure level to 1 mt	dB(A)	83	
Fuel consumption			
Fuel type	Туре	Diesel	
Fuel tank capacity	lt	no tank	
Fuel consumption at 4/4 load	l/h	261	
Fuel consumption at 3/4 load	l/h	199	
Fuel consumption at 2/4 load	l/h	139	
General Features			
Battery capacity	Ah	4x180	
Voltage	Vdc	24	
Exhaust temperature	°C	520	
Exhaust gas flow	l/s	3728	
Combustion air flow	l/s	1605	
Dimensions / weight			
Dimensions (L x w x h)	cm	800x240x310	
Weight inclusive of liquids (oil and antifreeze)	kg	11750	

COP

PRP

Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.

LTP

Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. This rating is applicable to installations served by a reliable normal utility source. This rating is only applicable to variable loads with an average load factor of 80 percent of the standby rating for a maximum of 200 hours of operation per year and a maximum of 25 hours per year at 100% of its standby rating. The standby rating is only applicable to emergency and standby applications where the generator set serves as the back up to the normal utility source. No sustained utility parallel operation is permitted with this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally Rated.

It is the power that the generating set is capable to supply, in continuous operation, for an unlimited number of hours per year at the reference environmental conditions. This is valid as long as the engine undergoes a scheduled maintenance, as specified by the manufacturer. The generating set is able to provide power equal to 100% of the nominal load. COP power is typically 30% lower than the LTP one. No overload capability is allowed for this rating.

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Factory		Cummins
Emissions		Stage 1
Model		KTA50G3
Speed governor		Electronic
Cooling system	Туре	liquid (water + 50% Paraflu11)
Speed	rpm	1500
Nominal power	CV	1502,7
Gross engine power	KWm	1097
Cycle	Туре	diesel 4 stroke
Injection	Туре	direct
Aspiration	Туре	Turbo
Numbers of cylinders	N°	16V
Bore x stroke	mm	159x159
Total displacement	lt	50,3
Engine oil features		15W40-API CG4-ACEA E3-E5
Engine oil consumption	%	
Total oil capacity	lt	177

Alternator

Factory *		Marelli	
Model		MJB 400LB4	
Prime power 3F+N 400V (480V)	kVA	1300	
Prime power 1F+N 230V (240V)	kVA	520	
Voltage regulator		+/-0.5%	
Poles	N°	4	
Phases	N°	3+N	
Standard windings connection		star serie	
Stator/rotor impregnation		H (ext. temp. 40°C)	
Efficiency pf=0,8 4/4	%	95,8	
Couple engine		elastic disk	
Short circuit current		>=300% (3In)	
Degree of protection		IP 23	
Cooling system		autoventilate	
Maxium overspeed	RPM	2250	
Waveform distortion	%	< 2	
Exciter		diode bridge	
Availability will vary according to the warehouse stock. However, in an	by case a primary brand will be used		

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Standard operating environmental conditions

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

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Control Systems on board



Variant +11 (QPE-C-VSC (650-1700 SS)) Automatic panel without switching on board

The QPE-C panel represents the evolution of the panels for the control and management of the generating set, with its microprocessor logic it is able to meet any user-requested features. In fact, the dual operation mode MANUAL or 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 +011 has separate switching inside a floor ATS panel. IP55.



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Control module

mc4

Description

Elcos's control panel QPE-C gives you the industry leading control solution for your power needs.

The QPE-C control panel used MC4 control module for single genset applications.

The module incorporates a number of advanced features to meet the most demanding on-site applications.

The MC4 is an Auto mains (Utility) failure control mudule, It offers a cost effective way of monitoring and communicating with your genset and includes the additional capability of being able to monitor a mains supply.

It includes a USB port and an RS485 port for Mod BUS Communication.

Applications

- Emergency when the mains failure occurs
- Self-production
- Fire fighting
- Construction site
- Rent



FEATURES

→ Controls

- Manual start up and stop
- Automatic start up and stop from AMF
- Start up and stop through contact
- Fuel pump control
- Lock
- Reset
- Programmable automatic test
- Emergency stop button
- Main counter command closed
- G.s. counter command closed

→ Engine Measures

- Engine RPM*
- Engine oil pressure BAR
- Engine oil temperature*
- Engine oil level*
- Cooling system pressure*
- Cooling system temperature°C
- Coolant level %
- Fuel consumption*
- Fuel level %
- Total operating hours
- Partial operating hours (resettable)

→ Communication Interfaces

- CAN-BUS communication
- 16-relay module (optional)
- GSM remote management modem (optional)
- Remote management software (optional)
- Remote panel (optional)
- Converter485/USB (optional)
- Converter485/LAN (optional)
- USB port for saving parameters and firmware
- updates
- RS485 serial output

→ Equipment

- Microprocessor logic
- Backlit refractive display
- 16-event alarm history list
- Multi-language management
- Troubleshooting with suggestions

→ Alternator Measures

- Genset voltage three-phase
- Genset star voltage RN.SN.TN.
- Genset three-phase current
- Genset frequency

Signals/Protections →

- Failed to start
- Failed to stop
- Low oil level*
- Low oil pressure
- Minimum oil pressure (pre-alarm)
- Low cooling liquid level
- Very high cooling liquid level
- High temperature (pre-alarm)
- Generator battery charger
- No fuel
- Low fuel level (pre-alarm)
- Start up
- Stop
- Fuel pump running
- Battery connected
- Battery charging
- Battery undervoltage
- Battery overvoltage
- Genset overvoltage
- Genset undervoltage

- Genset overload
- Genset short circuit
- Genset maximum frequency
- Genset minimum frequency

- Hours to maintenance
- Battery charger voltage
- Start up counter

- Genset apparent power KVA
- Genset actual power KW
- Genset reactive power KWr
- Genset KWh
- Genset power factor cosfi
- → Main Measures
- Mains voltage RST
- Mains frequency

 Genset connected Genset contactor closed Circuit breaker protection Mains connected Mains overvoltage Mains undervoltage Mains contactor closed

Emergency button pressed

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Optional

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Canopy - Soundproofing

- Canopy customized painting (RAL)
- Double soundproofing-2 dB (A) at 7 mt

Exhaust

• (FAP) Antiparticulate - Exhaust catalyst

Fuel supply

- Daily fuel tank with inspection hatch to allow cleaning
- Automatic fuel refilling system
- Tank connections 3 way valve

Engine

- -40 C° Engine liquids
- Super hot Engine heater 230 V
- Automatic refilling oil system

Protection & connection Panel

• Differential protection (adjustable only on variant +10 & +11)

Panel

- ATS switching cabinet (QC) (only variant +11)
- Remote management software (only variant +10 & +11)
- Remote panel (only variant +10 & +11)
- Converter 485/USB (only variant +10 & +11)
- Converter 485/LAN (only variant +10 & +11)
- 16-relay module (only variant +10 & +11)
- GSM remote management modem (only variant +10 & +11)
- UTIF counter with ARCUDI terminal box
- \bullet GSM remote control system with web application without SIM card (only variant +10 & +11)
- GPS tracking system (only variant +10 & +11)

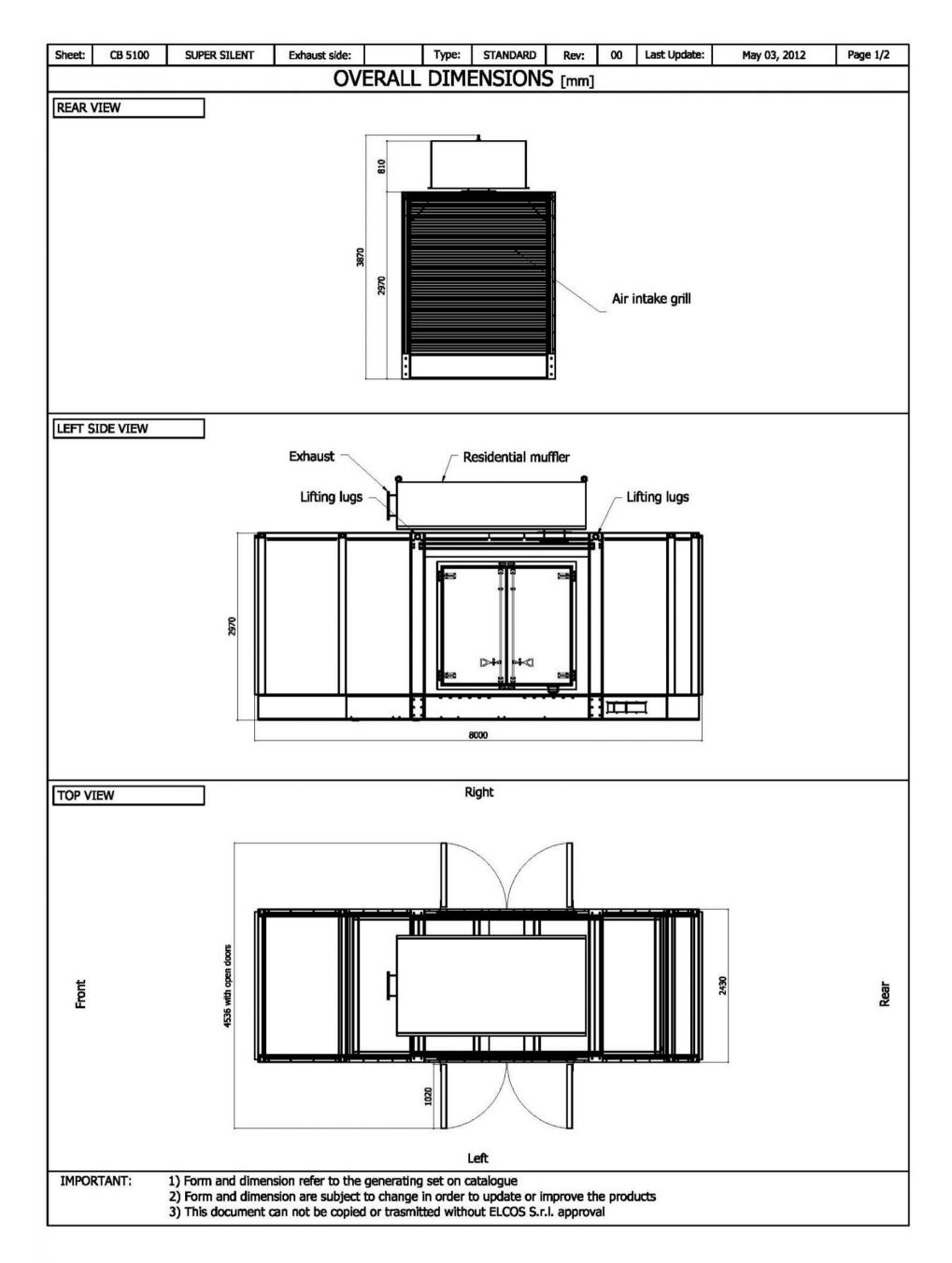
Other

• Toolbox for ordinary maintenance

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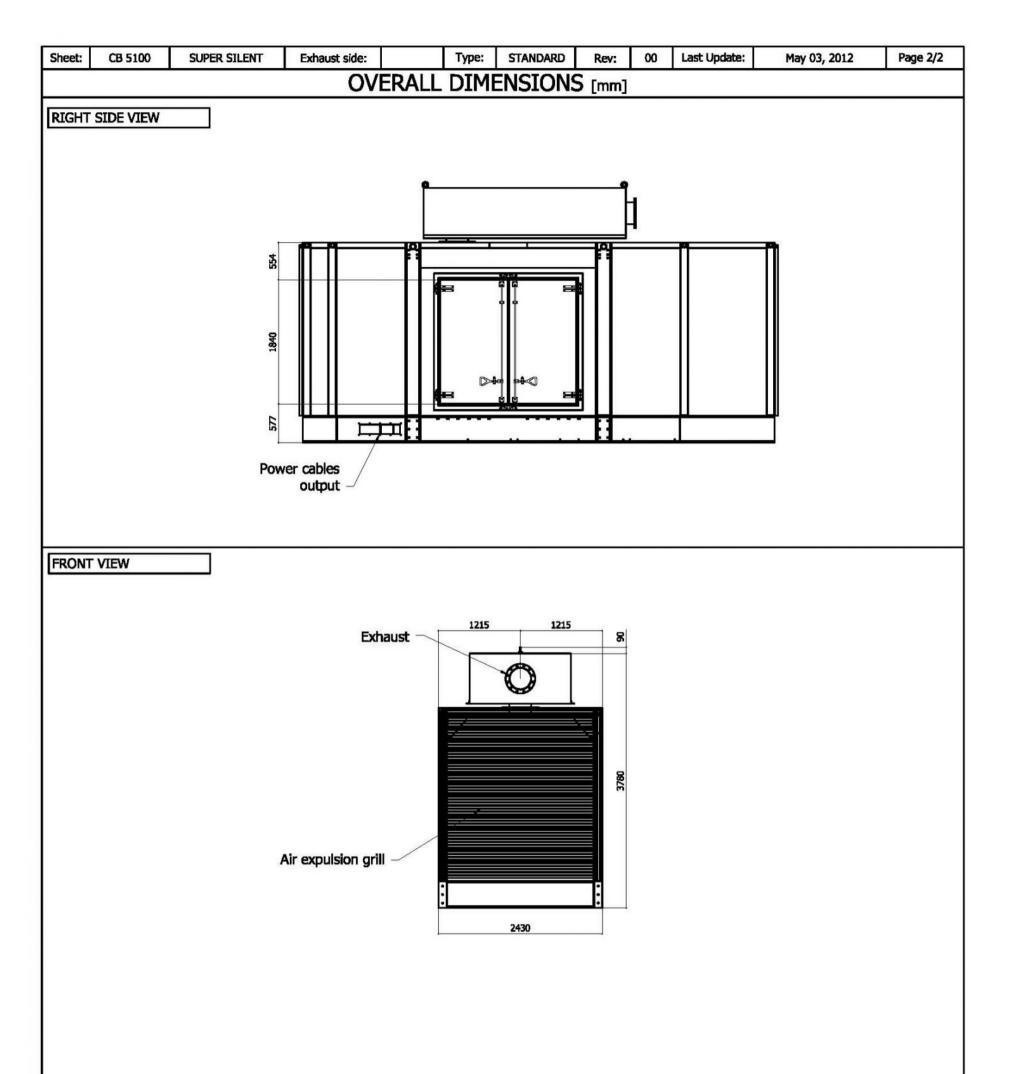




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IMPORTANT:	 Form and dimension refer to the generating set on catalogue
	Form and dimension are subject to change in order to update or improve the products
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