





Generating Set Base Frame - diesel

GE.PK.1250/1125.BF+011

1500 rpm - Threephase - 50Hz - 400V Automatic Panel with AMF without ATS



Image for demonstration purposes

Standard equipment

Exhaust Exhaust manifold protection Silenced muffler -15dB(A)

Fuel Supply Fuel connections Automatic shutdown system for low fuel level

HandlingN.4 lifting hooks integrated into the bearing structure

Base Frame Anti-vibrating mounting pads

Engine

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

Alternator

Avr automatic voltage regulator Avr pre-arranged for parallel Three-phase sensing avr Impregnation for marine environment Ip23

Panel & connection

Emergency stop button Magnetothermal circuit breaker on alternator board Cable output from side 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	А	1625,7
Cosfi	0,8	0,8
General electrical protection		
Circuit-breaker rated current	А	2000
Туре		Magnetothermal switch on the alternator board
Circuit-breaker poles	Ν	4P
Fuel Consumption		
Fuel Consumption		diesel
	lt	diesel No tank
Туре	lt lt/h	
Type Standard fuel tank capacity		No tank
Type Standard fuel tank capacity Fuel consumption at 100% load	lt/h	No tank 244
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load	lt/h lt/h	No tank 244 188
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load	lt/h lt/h	No tank 244 188
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data	lt/h lt/h lt/h	No tank 244 188 120
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data Rated capacity	lt/h lt/h lt/h Ah	No tank 244 188 120 4x180
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load © General data Rated capacity Auxiliary voltage	lt/h lt/h lt/h Ah V	No tank 244 188 120 4x180 24
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data Rated capacity Auxiliary voltage Exhaust gas temperature	t/h t/h t/h t/h 	No tank 244 188 120 4x180 24 473
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data Rated capacity Auxiliary voltage Exhaust gas flow	t/h t/h t/h t/h /s	No tank 244 188 120 4x180 24 473 3383
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load Combustion at 50% load Combustion air flow Cooling fan airflow	It/h It/h It/h Ah V °C I/s I/s	No tank 244 188 120 4x180 24 473 3383 1400
Type Standard fuel tank capacity Fuel consumption at 100% load Fuel consumption at 75% load Fuel consumption at 50% load General data General data Rated capacity Auxiliary voltage Exhaust gas temperature Exhaust gas flow Combustion air flow	It/h It/h It/h Ah V °C I/s I/s	No tank 244 188 120 4x180 24 473 3383 1400





Engine

Factory		Perkins
Model		4008 30TAG3
Emissions stage		Stage 0
Speed governor		Electronic
Radiator	°C	50
Cooling	Tipo	liquid (water + 50% Paraflu11)
Active net power	Kwm	947
Nominal net power	CV	1286,7
Cycle	Tipo	4 strokes
Injection	Tipo	Direct
Aspiration	Tipo	Turbo
Numbers of cylinders	Ν	8
Cylinders arrangement		L
Bore	mm	160
Stroke	mm	190
Total displacement	lt	30,546
Engine oil features		15W40-API CI-4/CH-4 ACEA E5-E7
Engine oil consumption	%	<0,2% fuel consumption
Total oil capacity	lt	153
Total coolant capacity	lt	188

Alternator

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

Factory		Stamford
Model		HCI634K
Prime power prp 3ph+n	KVA	1135
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% (3ln)
Protection degree	IP	23
Cooling system		Self ventilating
Maxium overspeed	rpm	2250
Exciter		PMG

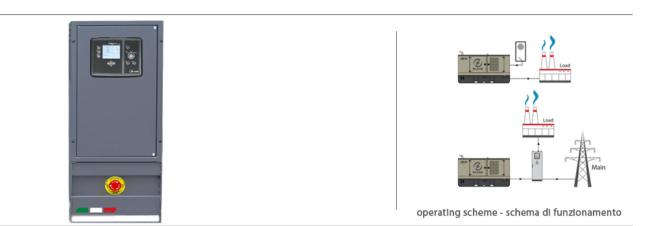
Standard operating environmental conditions

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





Control Systems on board QPE-C-VSC-BF



$\ensuremath{\textbf{QPE}}$ 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

Protection degree	IP	55
Totection degree	11	55

Battery charger

Model		ELCOS - CB1
Maximum output current	A	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 Common alarm - dc output Gs start with key in off position (only in mrs mode) Management of the automatic fuel refilling system Gs lock Mains contactor close/open command Gs test without load Programmable output - volt free output



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 11, 12, 13 Generator voltage 11-n, 12-n, 13-n Generator frequency Generator current 11, 12, 13 Generator apparent power kva Generator active power kwa Generator reactive power kvar Generator accumulated power kwh Power factor cosfi

MAINS MEASURES

Mains voltage 11, 12, 13 Mains voltage 11-n, 12-n, 13-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

Brand	ELCOS
Model	MC4
Operating mode	AMF - MRS

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 [1, [2, [3 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

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OPTIONAL

Canopy Soundproofing

Air inlet/outlet sound attenuator for room Soundproof container of various sizes

Exhaust

Exhaust flexible expansion joint External residential muffler Exhaust flexible pipe (fap) anti-particulate filter Exhaust catalyst (cat)

Fuel Supply

Single wall daily tank with bunded base Automatic fuel refilling system on trestle

Engine

Engine pre-heater 230vsuper hot Engine liquids + 50°c, - 40°c (oil and antifreeze) Battery disconnector Automatic refilling oil system Cyclone air filter Redundant start-up battery kit

Alternator

Stator windings thermistors - pt100 - in the alternator box (not managed) Bearing thermistor - pt100 - in the alternator box (not managed) Anti-condensation heater Double bearing Ip44

Panel & connection

Rcd with adjustable current and excludible Automatic transfer switch (qc) Utf energy meter with arcudi terminal Tamperproof panel ip55

MC4 optional

Telemonitoring with software Remote panel Rs485/usb converter Rs485/lan converter 16 relais card (volt free output) Gms modem - sms remote management Radiocontrol Gsm remote control system with web application without sim card Gps tracking system

PRP

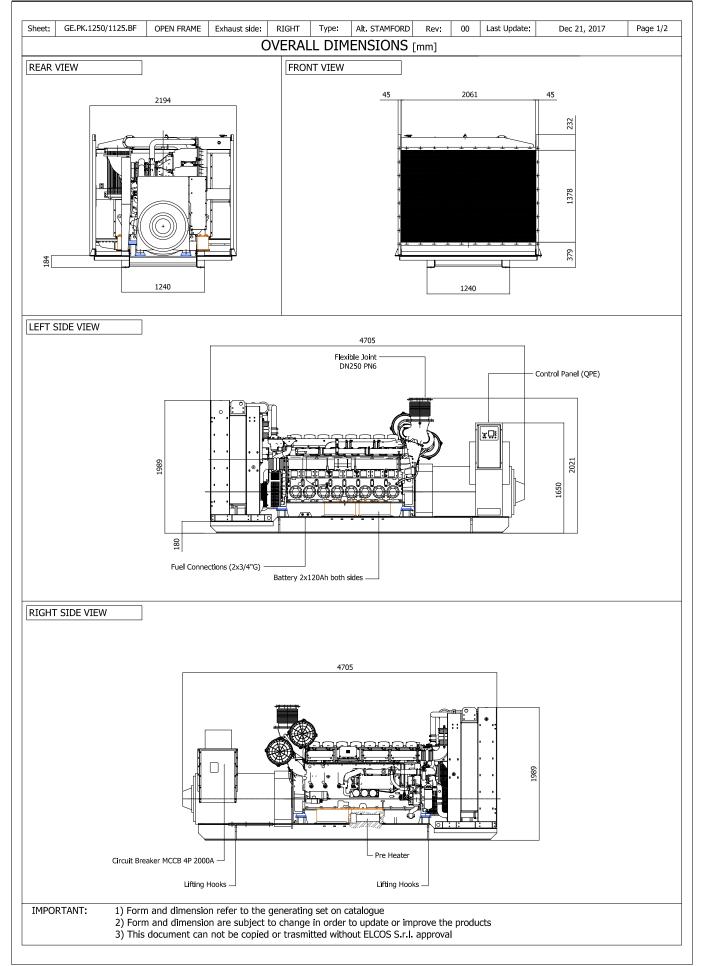
Engines of this rating provide unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's prime power rating with a maximum number of 500 operational hours at 100% prime power rating. An overload capability of 10% is available, however, is limited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