RB

RENTAL BUILDING
POWER GENERATORS

ELCOS®
POWER GENERATORS

THE PERFECT SOLUTION FOR RENTAL APPLICATION

15 - 650 kVA
1500-1800 r.p.m. - 50/60 Hz
400/230 V - 480/277 V

MOBILE POWER GENERATORS

ROBUSTLY BUILT

STAGE S

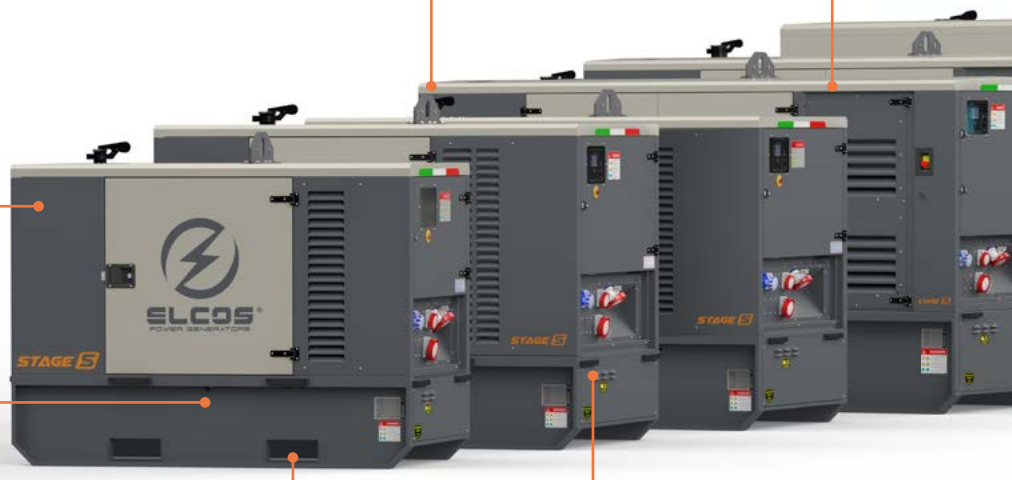
.RB

RENTAL BUILDING
POWER GENERATORS

Fully washable product
both externally and
internally with a nozzle

Central Lifting hook
oversized and reinforced, it allows the GS
to be moved with a crane

Super soundproofed Canopy
built to be used in extreme environments
Soundproofed with durable,
Class 1-rated, rot-proof polyester fiber



External fuel connectors
to ease the connection
to an external tank

Anti-rollover forklift tunnels
to ensure safe lifting
and handling

Rubber bumpers
to ensure greater protection
against impacts during handling

REMOTE MONITORING

FUEL WATER SEPARATOR FILTER

LATERAL HOOK FOR TRANSPORT

The perfect solution for rental applications

LOW NOISE | ROBUST | CUSTOM PAINTING | PARALLELABLE | MONITORING

ELCOS® POWER GENERATORS

Terminal box accessible from the outside
with cable holders to ensure a secure connection

Battery compartment
accessible from outside for easy maintenance

Wide opening doors
for inspection and maintenance

Daily tank reinforced with non-cutting edge bulkheads

Reinforced frame and brackets
to guarantee robustness during handling on site and during transport on trucks or trailers

Perkins | FPT POWERTRAIN TECHNOLOGIES | YANMAR | HYUNDAI | VOLVO | STAMFORD | ComAp

STAGE 5

JAS-ANZ | RoHS 2 2011/65/EU | CE | FM APPROVED

ENGINE STAGE 3A | ENGINE STAGE 5 | ENGINE TIER 4 FINAL

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ELCOS®
POWER GENERATORS

RENTAL BUILDING
POWER GENERATORS

RANGE
10/40 KVA

MOBILE APPLICATION

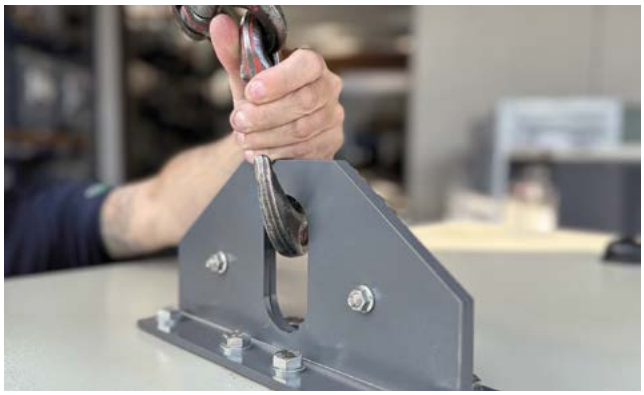
EASY TO USE, TRANSPORT, CONNECT AND MAINTAIN

Battery compartment externally accessible for easy maintenance

Control Panel Door with key lock and porthole, tamper and weather proof

Refuelling at ease with Quick Coupling connectors

Tank filler with wide tank refilling point



Central Lifing hook oversized and reinforced, it allows the GS to be moved with a crane

Side hooks for fixing to the truck bed

Inspection doors with double frame and airtight gasket

Lockable battery isolator
used during maintenance and storage

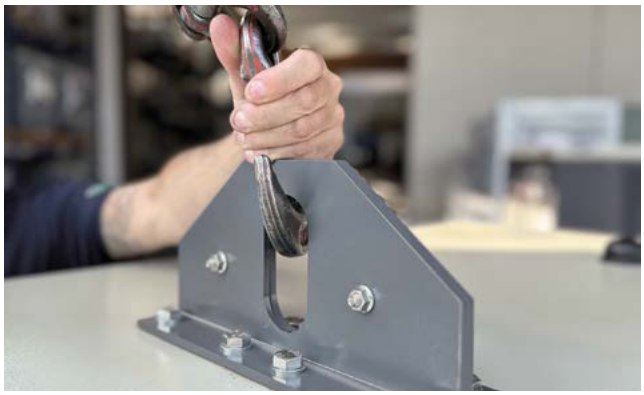
RB

RENTAL BUILDING
POWER GENERATORS

RANGE
50/100 KVA

MOBILE APPLICATION

EASY TO USE, TRANSPORT, CONNECT AND MAINTAIN

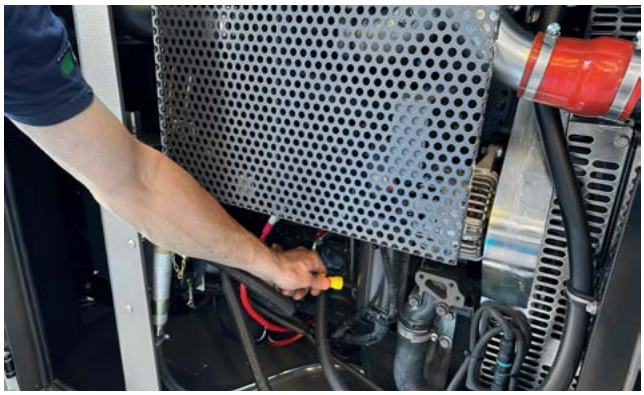


Central Lifing hook oversized and reinforced, it allows the GS to be moved with a crane

Power Terminal Box for cables with eye, it avoids damage to the contacts of the switch

Quick Coupling connectors to ease the connection to an external fuel tank

3-way valve for external tank connection



Heat protection grille

Side hooks for attaching to the truck bed

Inspection doors with double frame and airtight gasket

Lockable battery isolator used during maintenance and storage

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RENTAL BUILDING
POWER GENERATORS

ELCOS®
POWER GENERATORS

RANGE
130/250 KVA

MOBILE APPLICATION

EASY TO USE, TRANSPORT, CONNECT AND MAINTAIN

Battery compartment externally accessible for easy maintenance

Power Terminal Box for cables with eye, it avoids damage to the contacts of the switch

Quick Coupling connectors to ease the connection to an external fuel tank

Large tank filler neck

Central Lifing hook oversized and reinforced, it allows the GS to be moved with a crane

Anti-rollover forklift tunnels to ensure safe lifting and handling

Inspection doors with double frame and airtight gasket

Lockable battery isolator used during maintenance and storage

RB

RENTAL BUILDING
POWER GENERATORS

ELCOS®
POWER GENERATORS

RANGE
300/650 KVA

MOBILE APPLICATION

EASY TO USE, TRANSPORT, CONNECT AND MAINTAIN

Battery compartment externally accessible for easy maintenance

Power Terminal Box for cables with eye, it avoids damage to the contacts of the switch

Quick Coupling connectors to ease the connection to an external fuel tank

Large tank filler neck

Fuel inspection hatch

Oil change pump

3-way valve for external tank connection

Lockable battery isolator used during maintenance and storage

QPE - QPA 15-40 kVA

- Command and control module
- Emergency stop button
- Magneto-thermal switch with release coil
- Differential protection adjustable and excludible
- **CE 2P+T 16A 230V IP65** plug
  to supply the battery charger and pre-heater
- Battery charger

- **Standard sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP65**
  - **n.1 CE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65** (30/40 kVA)
  - General Differential Protection 0.03A*
  - Circuit breaker for each socket

* For 16A and 32A sockets

QPE - QPA 50-100 kVA

- Command and control module
- Emergency stop button
- Magneto-thermal switch motorized (only for QPA) with release coil
- Differential protection adjustable and excludible
- Power terminal block for cables with eye
- Slide and cable holder for power cable entry
- **CE 2P+T 16A 230V IP65** plug
  to supply the battery charger and pre-heater
- Battery charger

- **Standard sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP65**
  - **n.1 CE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65**
  - General Differential Protection 0.03A*
  - Circuit breaker for each socket

* For 16A and 32A sockets

QMC 15-40 kVA

- Command and control module
- Emergency stop button
- Magneto-thermal switch with release coil
- General differential protection
- Remote control connector

- **Sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP65**
  - **n.1 CEE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65** (30/40kVA)
  - Circuit breaker for each socket

Panel on board

QPE - QPA | 130-250 kVA

- Command and control module
- Emergency stop button
- Magneto-thermal switch motorized (only for QPA) with release coil
- Differential protection adjustable and excludible
- Power terminal block for cables with eye
- Slide and cable holder for power cable entry
- **CEE 2P+T 16A 230V IP65** plug to supply the battery charger and pre-heater
- Battery charger

- **Standard sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP55**
  - **n.1 CE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65**
  - General Differential Protection 0.03A*
  - Circuit breaker for each socket

* For 16A and 32A sockets

QPE - QPA | 300-650 kVA

- Command and control module
- Emergency stop button
- Magnetothermal switch with release coil
- RCD Residual Current Device
- Power terminal block for cables with eye
- Slide and cable holder for power cable entry
- **CEE 2P+T 16A 230V IP65** plug for C. B. and Heater supply
- Battery charger
- **Standard sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP65**
  - **n.1 CE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65**
  - General Differential Protection 0.03A*
  - Circuit breaker for each socket

* For 16A and 32A sockets

QMC | 50-100 kVA

- Command and control module
- Emergency stop button
- Magneto-thermal switch with release coil
- Remote control connector

- **Sockets:**
  - **n.1 SCHUKO 2P+T 16A 230V IP65**
  - **n.1 CE 2P+T 16A 230V IP65**
  - **n.1 CE 3P+N+T 16A 400V IP65**
  - **n.1 CE 3P+N+T 32A 400V** IP65
  - **n.1 CE 3P+N+T 63A 400V IP65**
  - General Differential Protection 0.03A*
  - Circuit breaker for each socket

* For 16A and 32A sockets

QPE
POLYVALENT PANEL

Applications
- Auto-production (island)
- Construction site
- Rental
- Emergency to the mains

MC4 # evo

Variant +011
Without integrated switching

With this variant the SWITCHING is externally managed through separate ATS panels (optional).

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

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

➔ Alternator Measures
- Genset voltage three-phase
- Genset star voltage RN.SN.TN.
- Genset three-phase current
- Genset frequency
- Genset apparent power KVA
- Genset actual power KW
- Genset reactive power KWr
- Genset KWh
- Genset power factor cosfi

➔ 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

QPA
PARALLEL PANEL

Applications
- Auto-production (island)
- Redundancy
- Rental
- Load request

ComAp InteliGen 4 200

Variant +014
With integrated motorized switch

This variant allows the GS to synchronize in parallel with each other, to have power supply management, load management, redundancy, load request. It monitors the GS managing measurements and alarms, Itnstarts it and stops it depending on the system parameters.

➔ Equipment
- Microprocessor logic
- LCD display
- Events history (up to 250 records)

➔ Alternator Measures
- Gen-set voltage Ph-Ph
- Gen-set voltage Ph-N
- Bus synchronization voltage
- Synchronoscope
- Gen-set current
- Gen-set Frequency
- Gen-set apparent power KVA
- Gen-set active power KW
- Gen-set reactive power KVAr
- Gen-set produce power KWh
- Power factor Cosfi

➔ Engine Measures
- Engine RPM
- Engine fuel level
- Oil system pressure
- Fuel consumption
- Total operating hours
- Partial operating hours (resettable)
- Hours to maintenance
- Battery/battery charger voltage
- Start-up counter

QMC
MANUAL PANEL

Applications
- Auto-production (island)
- Construction site
- Rental

SM1

Variant +012
Manual panel

With this variant, the GS is controlled manually by the operator and it enables the view of parameters.

➔ Equipment
- Digital voltmeter
- Digital frequency
- Digital ammeter
- Digital Kilovoltammeter
- Digital Battery voltage
- Digital fuel level
- Analog hour meter
- Ignition key
- Connector Remote Control
- Emergency stop button

Control and command modules

➔ Main Measures

- Mains voltage RST
- Mains frequency

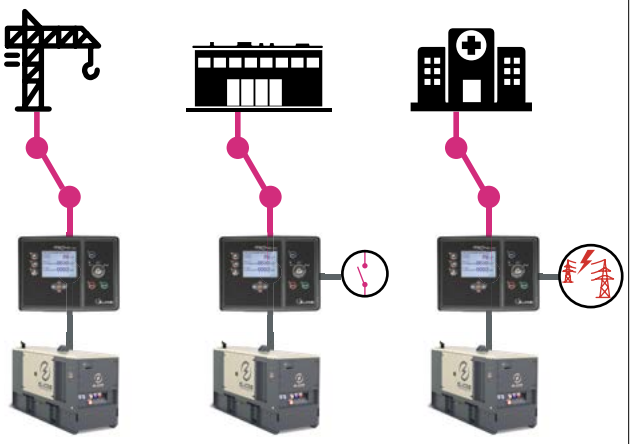
➔ Signals/Protections

- 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
- Genset connected
- Genset contactor closed
- Circuit breaker protection
- Mains connected
- Mains overvoltage
- Mains undervoltage
- Mains contactor closed
- Emergency button pressed

➔ Communication Interfaces

- CAN-BUS communication
- USB port for saving parameters and firmware updates
- RS485 serial output

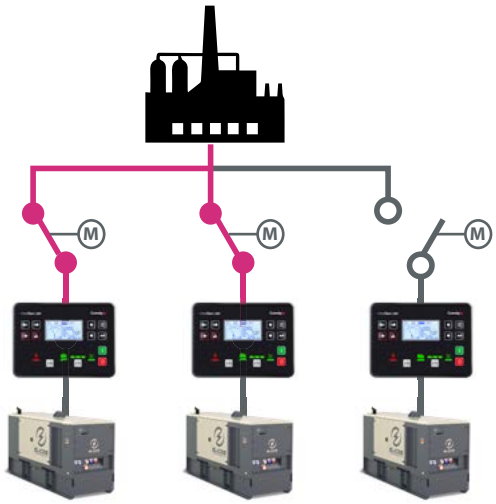
Operating diagram



➔ Controls

- Automatic synchronizing and power control (speed governor or ECU)
- Peak shaving
- Load shedding
- Load sharing
- Voltage and PF control (AVR)
- R.O.C.O.F. and vector shift protection
- Manual start up and stopl
- Start up and stop through remote contact
- Manual and Automatic mode button
- Buttons for manual command of the MAINS and G.S. switches
- Lock
- Alarms Reset
- Mute siren button
- Programmable automatic test
- Emergency stop button
- Controller redundancy
- Dead bus sensing
- Bus failure detection
- Dead bus synchronising
- SCADA monitoring via DSE software

Operating diagram



➔ Connector Remote Control

For connecting:

- Radio control Elcos (optional)
- Control with Elcos-Cable to start and stop the genset from distance (optional)

➔ Signals / Protectors

- Low oil pressure
- High coolant temperature
- Fault dynamo batterycharger
- Fuel reserve (G.S. stops after 5min.)
- Generic Fault
- IP 55

➔ Commands

- Manual start and stop
- Emergency stop button

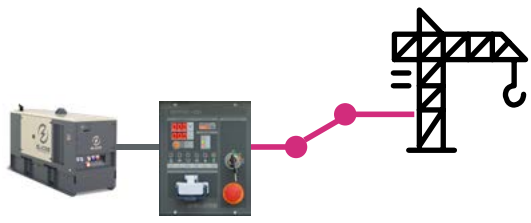
➔ Measures engine

- Fuel tank level
- Total workinghours
- Battery voltage

➔ Measures alternator

- GS Voltage R-S
- GS Current on phase R
- Generator Frequency Hz
- Apparent Power generator KVA

Operating diagram



Engine

Heavy duty air filter
Fuel/Water separator filter
Engine liquids -40 °C
Radiator level sensor
230 Vac engine pre-heater
Automatic oil refilling system

Alternator

230 Vac anti-condensation heaters
RTD-PT100 probes on stator windings
PT100 probe on bearings
Temperature control unit up to 4 PT100 probes

Batteries

Maintenance free high efficiency starter batteries

Fuel Supply

Oversized Tank on board
External refilling point with warning light for full tank
Automatic fuel refilling system on board

Exhaust

Catalytic converter (CAT)
Particulate filter (DPF)
Spark arrestor

Handling

Off-road trailer with 2 pneumatic wheels and tow bar
Roadworthy trailer (80km/h)

Optional

Canopy

Custom colour paint
High resistance canopy treatment for corrosive environments
Stainless steel canopy
Internal and external LED lighting with micro-switches
Door opening alarm system

Electrical System

QPE

MASTER / SLAVE device
GSM remote management modem
EVO remote control system via LAN / GSM / GPRS with GPS
Start-Stop radio control (500 mt indoors / 5 km outdoors range)
50Hz 400V / 60Hz 480V switch selector
Voltage potentiometer with output on the panel
Option with QBM DSE7310 controller on board
Option with QBM ComAp AMF25 controller on board

QMC

Differential protection adjustable
Start-stop radio control (500 mt indoors / 5 km outdoors range)

QPA

Option with ComAp controller on board

RB

Additional socket with thermal breaker
Differential module for single socket 0.3 or 0.03A
Quick coupling connectors installed on board
Mains / GS switching on board (15/100 kVA)

ELCOS®
POWER GENERATORS

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