

Генераторы для сдачи в аренду на серии RB

Технические характеристики

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.RB



Power range 15-500 kVA

Power generators 1500-1800 RPM - 50/60Hz - 400-230 V/480-277 V

Super soundproofed Canopy

built to be used in extreme environments
Soundproofed with durable
class 1 rated rot-proof polyester fiber

Fully washable product

both externally and internally with a nozzle



Anti-rollover forklift tunnels

to ensure safe lifting
and handling

Daily tank

reinforced with non-cutting
edge bulkheads

External fuel connectors

to ease the connection to an
external tank

Rubber bumpers

to ensure greater protection against
impacts during handling

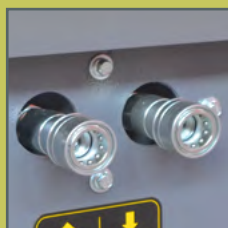
Terminal box accessible from the outside

with cable holders to ensure a secure connection



3-ways valve

to switch between
internal or external
tank



Quick Coupling connectors

to ease the connection to
an external fuel tank



Automatic stop system

due to lack of fuel



Tank inspection hatch

to inspect the tank during
maintenance



Anti-vibration pads

attenuate the vibrations
caused by the unit



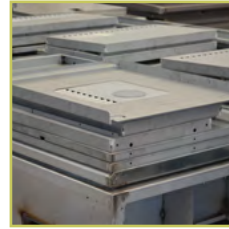
Power Terminal Box
for cables with eye,
it avoids damage to the
contacts of the switch



Tank filler
wide tank refilling
point



Document holder
for documents
supplied with the GS



**Galvanized metal
sheet** used to increase
strength and durability



Battery compartment
externally accessible
for easy maintenance

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



Battery isolator
lockable, it is used during
maintenance and storage



Residential muffler
-35 dBA for enhance
sound attenuation



Wiring
with excellent degree
of resistance with
plug-in connectors



Air intake louvres
guarantee suitable
ventilation in all
conditions



Exhaust terminal pipe
with tilting cap rain cover



**Heat and rotating
part guards** to prevent
injuries to the user

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

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



Oil change pump
for routine oil change



On board tank
equipped with
bulkheads and bunged
base



Connection copper bars
for cables with lugs, they
allow to connect more
cables on the same phase



Inspection doors
with double frame and
airtight gasket



**Snap handles with
key lock** to offer
maximum security and
protection

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 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

QPE - QPA

130-250 kVA



- Command and control module
 - Emergency stop button
 - Magneto-thermal switch 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

300-500 kVA



- Command and control module
- Emergency stop button
- Magnetothermal switch with release coil
- Differential protection
- 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

+011
VARIANT

Variant +011

Without integrated switching

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

MCH# evo



→ 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

+014
VARIANT

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, It starts it and stops it depending on the system parameters.

IntelGen200



→ Engine measures

- Fuel tank level %
- Engine oil pressure BAR
- Engine Coolant temperature °C
- Total run time Partial run time
- Hours to maintenance
- Battery voltage
- Battery charging voltage
- Start-ups counter
- Engine speed
- Engine Oil temperature
- Cooler temperature
- Engine oil level
- Engine coolant level
- Engine coolant pressure
- Turbo pressure
- Fuel Consumption

→ Misure alternatore

- Generator Voltage L1, L2, L3
- Generator Voltage L1-N, L2-N, L3-N
- Generator frequency
- Generator current L1
- Generator current L1, L2, L3
- Generator Apparent Power kVA
- Generator Active Power kW
- Generator Reactive Power kVAR
- Generator accumulated power kWh
- Power factor Cosfi

→ Misure di rete

- Mains voltage L1, L2, L3
- Mains voltage L1-N, L2-N, L3-N
- Mains frequency

→ Porte di comunicazione

- Can-bus port
- RS485 port with Mod-bus RTU communication
- Configurable via PC using USB port

QMC

MANUAL PANEL

Applications

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

+012
VARIANT

Variant +012 Manual panel

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

SML



→ 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

→ Main Measures

- Mains voltage RST
- Mains frequency

→ Signals/Protections

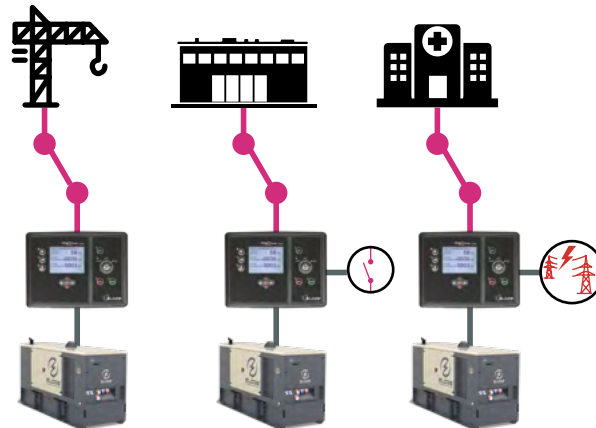
- Failed to start
- Failed to stop
- Low oil level*
- Low oil pressure
- Minimum oil pressure (pre-alarm)
- Low cooling liquid level
- Very high cooling liquid level
- High temperature (pre-alarm)
- Generator battery charger
- No fuel
- Low fuel level (pre-alarm)
- Start up
- Stop
- Fuel pump running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



→ Equipment

- Microprocessor Logic
- Back-lit display
- Programmable by PC software
- 250 event log
- Multiple display languages
- STOP -START button
- AUT mode button
- MAN mode button
- OFF mode button
- Reset alarm button
- Alarm mute button
- Transfer to Mains button
- Generator to generator button

→ Visualizations

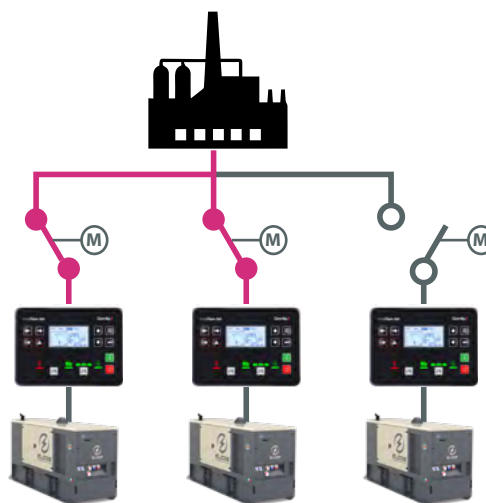
- Pre-alarms/Alarms
- Engine measures
- Alternator measures
- Mains measures
- Date and time
- Operating mode
- Genset status

- Mains status
- Mains contactor status
- Genset contactor status
- Digital Input and Output status

→ Functions

- Automatic start and stop when the Mains Fails
- Remote Start and Stop
- Manual Start and stop
- Emergency stop button on panel board
- Remote emergency stop
- MODBUS commands (Start, Stop, Reset, Test)
- Scada available with PC connected to the controller
- PLC editor
- Manual switching commands

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 battery charger
- Fuel reserve (G.S. stops after 5min.)
- Generic Fault
- IP 55

→ Commands

- Manual start and stop
- Emergency stop button

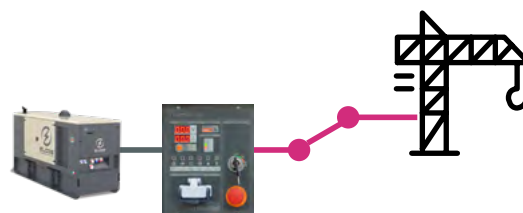
→ Measures engine

- 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





GE.RB

Power Generators 15 - 200 kVA

1500/1800 RPM DIESEL
50 /60 HZ 400-230 /480-277 V



50 HZ 60 HZ 50 HZ 60 HZ BRAND CODE COOLING STAGE GOVERNOR L x W x H WEIGHT kg TANK lt LOAD@75%-h NOISE @7 m SWITCH A

15 kVA

GE.YAS5.017/015.RB	17	17	15	15	Yanmar	3TNV88F	W50°	Stage 5	M	195x95x150	742	110	43	56	20
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20 kVA

GE.PKS5.021/020.RB	21	27	20	24	Perkins	404J-22G	W50°	Stage 5	M	195x95x150	849	110	28	58	32
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GE.YAS5.022/020.RB	22	-	20	-	Yanmar	4TNV88-BIECS	W50°	Stage 5	M	195x95x150	779	110	28	57	32
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30 kVA

GE.DWS5.032/030.RB	32	41	30	37	Doosan	D18	W50°	Stage 5	E	225x115x165	1002	250	45	62	50
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GE.YAS5.037/033.RB	37	-	33	-	Yanmar	4TNV98C-IYE	W50°	Stage 5	E	195x95x150	966	110	-	61	50
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40 kVA

GE.YAS5.044/040.RB	44	-	40	-	Yanmar	4TNV98CT-IYE	W50°	Stage 5	E	195x95x150	992	110	-	61	63
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50 kVA

GE.DWS5.052/050.RB	52	56	50	52	Doosan	D24	W50°	Stage 5	E	265x115x168	1136	250	30	63	80
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60 kVA

GE.AIS5.061/060.RB	60	-	60	-	FPT	F34TEVP01.00	W50°	Stage 5	E	265x115x168	1348	250	23	63	100
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80 kVA

GE.AIS5.090/085.RB	90	-	85,7	-	FPT	F36ETVP03.A85	W50°	Stage 5	E	265x115x168	1511	250	20	64	125
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GE.DWS5.085/075.RB	85	100	75	90	Doosan	D34	W50°	Stage 5	E	265x115x168	1619	250	18	65	125
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100 kVA

GE.AIS5.110/100.RB	110	-	100	-	FPT	F36ETVP03.A94	W50°	Stage 5	E	265x115x168	1534	250	15	65	160
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150 kVA

GE.AIS5.165/155.RB	165	-	155	-	FPT	N67TEVP06.00	W50°	Stage 5	E	385x125x215	2356	400	17	66	250
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200 kVA

GE.AIS5.220/200.RB	224	-	200	-	FPT	N67TEVP05.00	W50°	Stage 5	E	385x125x215	2457	400	13	66	320
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250 kVA

GE.SCS5.275/250.RB	275	-	250	-	Scania	DC09 320A 02-61	W50°	Stage 5	E	415x155x230	3425	600	16	66	400
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GE.RB

Power Generators 250 - 500 kVA

1500/1800 RPM DIESEL
50 /60 HZ 400-230 /480-277 V



50 HZ 60 HZ



50 HZ 60 HZ



BRAND



CODE



COOLING



STAGE



GOVERNOR



LxWxH



WEIGHT kg



TANK lt



LOAD@75%-h



NOISE @ 7 m



SWITCH A

300 kVA

GE.SCS5.330/300.RB	330	300	Scania	DC09 320A 02-63	W50°	Stage 5	E	415x155x230	3903	600	13	65	630
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350 kVA

GE.SCS5.385/350.RB	385	350	Scania	DC13 320A 02-61	W50°	Stage 5	E	415x155x230	4287	600	12	66	630
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400 kVA

GE.SCS5.440/400.RB	440	400	Scania	DC13 320A 02-62	W50°	Stage 5	E	415x155x230	4431	600	11	66	630
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450 kVA

GE.SCS5.500/450.RB	495	450	Scania	DC13 320A 02-63	W50°	Stage 5	E	475x185x250	5256	1150	20	68	800
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500 kVA

GE.SCS5.550/500.RB	550	500	Scania	DC16 320A 02-62	W50°	Stage 5	E	475x185x250	5469	1150	17	68	800
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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)



Canopy

- Custom colour paint
- High resistance canopy treatment for corrosive environments
- Stainless steel canopy
- Internal 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)
- Start and Stop module for load request for QPE
- 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)
- Auto Start-Stop at load request (QMC)



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)

EVO remote control

GSM - GPS - GRPS



- ✓ Generating set status
- ✓ Start and Stop
- ✓ Alarms and Monitoring
- ✓ Fuel level and consumption
- ✓ GPS position

Testing Rooms

TR1

Testing Room 1 from 5 to 1000 kW Certified for phonometric tests

LOW Voltage

50 Hz
400 - 380 - 230 V
60 Hz
480 - 240 - 208 - 220 - 277 V

DC Voltage

48 VDC



Features of Testing Room N° 1

- 607 kW x 2 automatic test with 10 load steps
- 35 kW automatic test with 10 load steps
- 10 kW automatic test in DC with 10 load steps
- Full tests with 6 PT 100 probes, 3 thermal probes
- Air flow test with anemometer
- Vibrations test
- Phonometric test
- Data registration by MODBUS

TR2

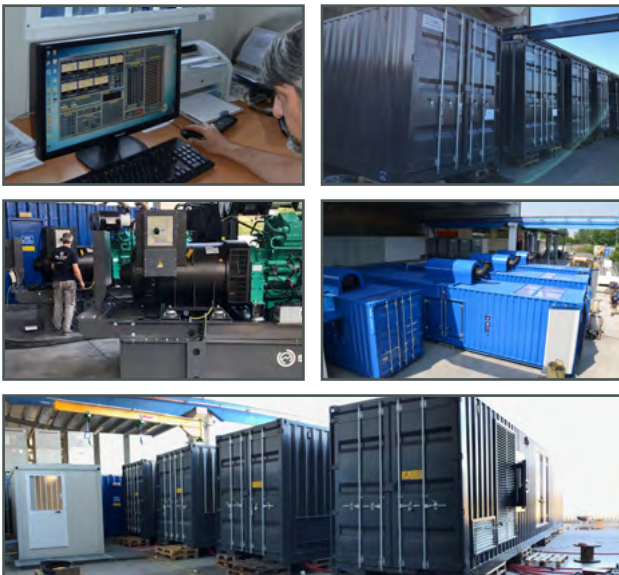
Testing Room 2 from 250 to 4000 kW

LOW Voltage

50 Hz
400 - 380 - 230 V
60 Hz
480 - 240 - 208 - 220 - 277 V

MEDIUM Voltage

50 Hz
3/3.3 - 6/6.3/6.6 - 10/11 - 15 kV
60 Hz
4 - 7.2/11.4 - 12.4/13 kV



Features of Testing Room N° 2

- 3000 kW automatic test with 20 load steps
- Multi-voltage transformer with MV cells
- Full tests with 6 PT 100 probes, 3 thermal probes
- Parallel test for up to 6 containers
- Air flow test with anemometer
- Vibrations test
- Phonometric test
- Data registration by MODBUS

About us



45
Years of experience

Company

Elcos is located in Northern Italy, in the province of Cremona. It has been operating in the domestic and international market for over forty-five years.



Elcos researches and develops products that use innovative technologies in order to optimize its production efficiency and performances provided by its systems, offering the user (from 1 to 3150 kVA) a customized product.

Elcos is an independent group that designs and produces in Italy power generation systems (emergency and self-production) intended for the international market. ELCOS has promoted an internal behavioural code based on customer satisfaction.

Product quality and customer satisfaction: the passions that guide us. The R&D department is constantly studying the possibilities of technological innovation to improve the products proposed, to explore the possibilities of new products and to improve production processes. Always focused on quality, ensuring conformity of the product and the processes according to legislation, by respecting environmental issues.



The R&D department implements existing systems and looks forward to future opportunities that can meet the needs of customers.

Other Elcos products

<i>GE-RB</i>	<i>GE-SS</i>	<i>GE-BF</i>	<i>GE-TLC</i>	<i>GMV-BF</i>	<i>NO BREAK</i>
<i>GDC-HS</i>	<i>GDC-SAPS</i>	<i>GE-ECHO</i>	<i>GE-ZIP</i>	<i>TF</i>	<i>AGRIPLUS</i>

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