

.PRO Professional

Power range 10-250 kVA

Generating sets 1500-1800/3000-3600 RPM
50/60Hz - 400-230 V/480-277 V



**Stand-by Power
Generators**



**Quick and easy
installation**



**Suitable for
outdoor use**

**Generating sets designed to
offer the best reliability
in the event of a power failure**

PRO series generators
offer a wide range of power
and engine brands

www.elcos.net

.PRO

Power range **10-250 kVA**

Generating sets 1500-1800/3000-3600 RPM

50/60Hz - 400-230 V/480-277 V



EU
Standards
Compliant



Professional Diesel Generators

Thanks to a sturdy metal structure, they guarantee reliable handling. They are built with elements of ultimate technology, which allow to reduce the noise generated from the engine.



Safe for the operator and easy to maintain

All operations, such as use, commissioning and maintenance are carried out in complete safety, thanks to all the specifically designed devices.



Fully customizable to fit all needs

Thanks to a wide range of accessories we can configure the generator to be perfectly suited to your needs.

Engine and Alternator Brands



Electric power supply solutions



The generating sets of our PRO range cover emergency needs in support to the standard supply of electricity.

They guarantee a reliable power supply and the maximum level of performance in the event of a sudden power failure.

The PRO range covers the reference power from 10 to 250 KVA, equipped with premium engines and alternators brand.

Applications

These generators can be used in a variety of applications, such as:



-Industries



-Shops



-Hotels

-Residential areas



-Nursing homes

-Gas stations



-Malls

-Factories

-Livestock farms

-Recreation centers

.PRO

Power range **10-250 kVA**

Generating sets 1500-1800/3000-3600 RPM

50/60Hz - 400-230 V/480-277 V

Residential muffler - 35 dBA

It reduces engine exhaust noise

Key locks

to grant maximum security and protection



Residential muffler - 35 dBA

into the base-frame



Command and control panel

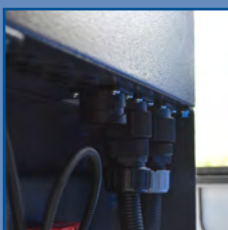
accessible from the outside and protected from atmospheric factors

Silenced canopy

fully weatherproof
soundproofed with class 1
rated rot-proof polyester fiber

Battery compartment

externally accessible
for easy maintenance



Wiring

excellent degree of resistance with plug-in connectors



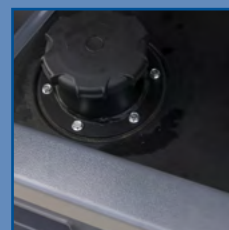
Integrated tank

it guarantees an excellent runtime to the generating set



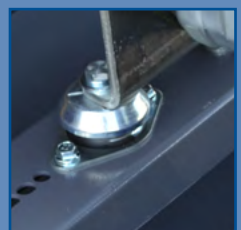
Automatic stop system

due to lack of fuel



Tank inspection hatch

to inspect the tank during maintenance



Anti-vibration pads

attenuate the vibrations caused by the unit



Engines liquids
-20 °C oil and antifreeze



Anti-rollover forklift
tunnels to ensure safe lifting and handling



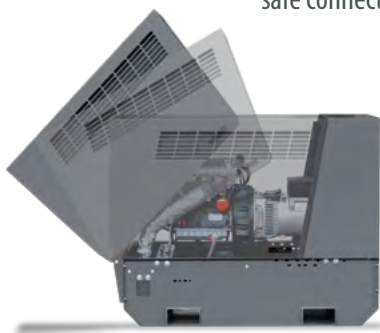
Lead-acid starter battery
supplied pre-charged ready to use



Air Intake louvres
guarantee a suitable ventilation in all conditions



General circuit breaker
mounted on the alternator for a comfortable and safe connection



Exhaust pipes
with exhaust heat wrap for high-performance and security



Bunded base
environmental friendly - to contain the liquids in the event of a spill



Cable outlet
to allow an easy connection



Inspection doors
lift-off doors for narrow installation sites



Emergency stop button
it shuts down the generating set immediately

QLE

EMERGENCY PANEL

Applications

- ◆ Emergency to the mains

MC2



+011 VARIANT

Variant +011 Without integrated switching

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

+010 VARIANT

Variant +010 With integrated switching

With this variant the SWITCHING is INTEGRATED and connected on board in order to have a unique and complete emergency power system.

→ Controls

- Manual start up and stop
- Automatic start up and stop from AMF
- Test NO load with external timer
- Remote start from dry-contact
- G.S. locked from external
- Emergency stop button
- Mains counter command closed
- Genset counter command closed

→ Engine Measures

- Fuel level %
- Total operating hours
- Battery charger voltage
- Start up counter
- Engine speed

→ Alternator Measures

- Gen set voltage three-phase RST
- Gen set star voltage RN.SN.TN.
- Gen set frequency

→ Main Measures

- Mains voltage RST
- Mains frequency

→ Equipment

- Microprocessor logic
- Backlit refractive display
- 10 events alarm history list
- Icons management
- Troubleshooting with suggestions

→ Protections/Alarms

- Failed to start
- Failed to stop
- Low oil pressure
- High temperature
- Generator battery charger
- Fuel reserve (Warning)
- No Fuel (Shutdown)
- Genset overvoltage
- Genset undervoltage
- Genset maximum frequency
- Genset minimum frequency
- Phase rotation

→ Signals

- Start up
- Stop
- Battery connected
- Battery charging
- Battery undervoltage
- Battery overvoltage
- Genset connected
- Mains connected
- Mains overvoltage
- Mains undervoltage
- Emergency button pressed
- Cumulative alarm
- Fuel reserve
- No fuel



GE.PRO

Power Generators 10 - 40 kVA

1500 - 1800 / 3000 - 3600 RPM DIESEL
50 / 60 HZ 400/480 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

10 kVA

GE.K3W.011\010.PRO	11,7	-	10	-	Kohler 3000	KDW702	W50°	Stage 0	M	148x80x118	380	85	36	82	16
GE.YA.011\010.PRO	11	12	10	11	Yanmar	3TNV76	W50°	Stage 3A	M	148x80x118	428	85	48	67	16

13 kVA

GE.PK.016\013.PRO	15	-	13	-	Perkins	403A-15G1	W50°	Stage 0	M	148x80x118	526	85	31	67	25
--------------------------	----	---	----	---	---------	-----------	------	---------	---	------------	-----	----	----	----	----

15 kVA

GE.BD.017\015.PRO	17	-	15	-	Baudouin	4M06G17/5	W50°	Stage 0	M	148x80x118	628	85	23	67	25
GE.K3W.017\015.PRO	17,5	-	15,9	-	Kohler 3000	KDW1003	W50°	Stage 0	M	148x80x118	428	85	27	83	25
GE.PK.017\015.PRO	17	19	15	17	Perkins	403A-15G2	W50°	Stage 0	M	148x80x118	532	85	28	67	25
GE.YA.017\015.PRO	17	19	15	17	Yanmar	3TNV88	W50°	Stage 3A	M	148x80x118	492	85	33	67	25

20 kVA

GE.BD.022\020.PRO	21	-	20	-	Baudouin	4M06G22/5	W50°	Stage 0	E	158x80x122	682	85	19	69	32
GE.K3W.023\021.PRO	23,4	-	20	-	Kohler 3000	KDW1404	W50°	Stage 0	M	158x80x122	513	85	18	84	32
GE.PK.022\020.PRO	22	-	20	-	Perkins	404A-22G1	W50°	Stage 0	M	158x80x122	637	85	22	69	32
GE.YA.022\020.PRO	22	25	20	23	Yanmar	4TNV88	W50°	Stage 3A	M	158x80x122	567	85	22	68	32

25 kVA

GE.CU.030\027.PRO	27,5	-	25	-	Cummins	X2.5G2	W50°	Stage 0	M	178x80x127	736	85	18	72	40
GE.K3W.028\025.PRO	28,7	-	26,1	-	Kohler 3000	KDW1603	W50°	Stage 0	M	158x80x122	597	85	15	84	40

30 kVA

GE.BD.035\032.PRO	35	-	32	-	Baudouin	4M06G33/5	W50°	Stage 0	E	178x80x127	796	85	16	72	50
GE.K3W.037\035.PRO	37,6	-	34,2	-	Kohler 3000	KDW2204	W50°	Stage 0	M	158x80x122	655	85	12	86	50
GE.YA.037\033.PRO	37	38	33	35	Yanmar	4TNV98	W50°	Stage 3A	M	178x80x127	758	85	17	72	50

40 kVA

GE.BD.044\040.PRO	44	-	40	-	Baudouin	4M06G44/5	W50°	Stage 0	E	178x80x127	805	85	13	74	63
GE.YA.044\040.PRO	44	49	40	46	Yanmar	4TNV98T	W50°	Stage 2	M	178x80x127	777	85	13	72	63



GE.PRO

Power Generators 50 - 250 kVA

1500 - 1800 RPM DIESEL
50 /60 HZ 400/480 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

50 kVA

GE.AI.056\051.PRO	55	-	50	-	FPT	N45AM2	W50°	Stage 0	M	246x100x200	1054	110	12	74	80
GE.BD.055\050.PRO	55	-	50	-	Baudouin	4M06G55/5	W50°	Stage 0	E	246x100x200	920	110	13	74	80

60 kVA

GE.AI.066\060.PRO	66	73	60	66	FPT	N455M1A	W50°	Stage 2	M	246x100x200	1150	110	12	74	100
GE.BD.065\060.PRO	66	-	60	-	Baudouin	4M11G70/5	W50°	Stage 0	E	246x100x200	1302	110	10	76	100
GE.PK.067\061.PRO	66	75	60	69	Perkins	1103A-33TG2	W50°	Stage 0	M	246x100x200	1171	110	11	74	100

80 kVA

GE.AI.090\080.PRO	90	99	80	90	FPT	N455M3	W50°	Stage 0	M	246x100x200	1293	110	8	76	125
GE.BD.090\082.PRO	90	-	82	-	Baudouin	4M11G90/5	W50°	Stage 0	E	246x100x200	1445	110	9	76	125
GE.PK.088\080.PRO	88	100	80	90	Perkins	1104A-44TG2	W50°	Stage 0	M	246x100x200	1367	110	8	75	125

100 kVA

GE.AI.110\100.PRO	110	121	100	110	FPT	N45TM2A	W50°	Stage 2	M	246x100x200	1366	110	7	76	160
GE.BD.110\100.PRO	110	-	100	-	Baudouin	4M11G110/5	W50°	Stage 0	E	246x100x200	1512	110	7	76	160
GE.PK.110\100.PRO	110	125	100	112	Perkins	1104C-44TAG2	W50°	Stage 2	E	246x100x200	1401	110	7	76	160

130 kVA

GE.AI.131\120.PRO	135	140	120	130	FPT	N45TM3	W50°	Stage 0	M	291x110x220	1579	250	12	75	250
GE.BD.150\135.PRO	150	-	135	-	Baudouin	6M11G150/5	W50°	Stage 0	E	331x120x230	1906	250	11	76	250
GE.VO.150\135.PRO	144	151	130	135	Volvo	TAD 532 GE	W50°	Stage 2	E	291x110x220	1745	250	12	75	250

150 kVA

GE.AI.176\165.PRO	176	187	165	170	FPT	N67TM4	W50°	Stage 0	M	291x110x220	1774	250	9	77	250
GE.BD.165\150.PRO	165	-	150	-	Baudouin	6M11G165/5	W50°	Stage 0	E	331x120x230	1944	250	10	77	250
GE.DW.170\150.PRO	170	200	150	185	Doosan	DP086TA	W50°	Stage 2	E	331x120x230	2093	250	10	77	250
GE.VO.165\150.PRO	165	172	150	155	Volvo	TAD 731 GE	W50°	Stage 2	M	331x120x230	2027	250	10	76	250

200 kVA

GE.AI.221\201.PRO	220	234	200	210	FPT	N67TM7	W50°	Stage 0	M	331x120x230	2011	250	7	77	400
GE.BD.220\200.PRO	220	-	200	-	Baudouin	6M16G220/5	W50°	Stage 0	E	331x120x230	2418	250	8	77	400
GE.DW.220\200.PRO	225	250	200	230	Doosan	P086TI	W50°	Stage 2	E	331x120x230	2249	250	8	77	400
GE.VO.225\205.PRO	225	252	205	226	Volvo	TAD 733 GE	W50°	Stage 2	E	331x120x230	2310	250	8	77	400

250 kVA

GE.AI.275\250.PRO	275	290	250	260	FPT	N67 TE8W	W50°	Stage 0	E	331x120x230	2177	250	7	78	400
GE.DW.250\230.PRO	250	285	230	250	Doosan	DP086LA	W50°	Stage 2	E	331x120x230	2350	250	7	78	400
GE.VO.275\250.PRO	275	287	250	255	Volvo	TAD 734 GE	W50°	Stage 2	E	331x120x230	2401	250	7	77	400



Engine

Fuel/water separator filter

Engine liquids -40 °C

Oil suction pump

Oil pressure level and engine temperature sensors (only with enhanced controllers)

Engine pre-heater 230 Vac with thermostat on board



Batteries

DC isolator

Maintenance free high efficiency starter batteries



Exhaust

Spark arrestor



Fuel supply

Automatic fuel refilling system on board

Quick coupling connectors with 3-way valve for external fuel tank connection



Spare parts

Toolbox for routine maintenance

IP 55 document holder



Electrical System

QLE/QMC

Option with QPE MC4 on board

Option with DSE 7320 on board

Option with ComAp AMF25 on board

Differential protection

OUTLET

Socket for total power withdrawal



Separate switching panels - ATS



External tanks and automatic fuel refilling systems

Automatic fuel refilling system with bunded base

Tanks with floor bunded base



Tanks

Double wall fuel tanks with feet and tear valve

Single wall fuel tank for outdoor use with bunded base and roof



Services

Factory Acceptance Test (FAT)

Vibrations test

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

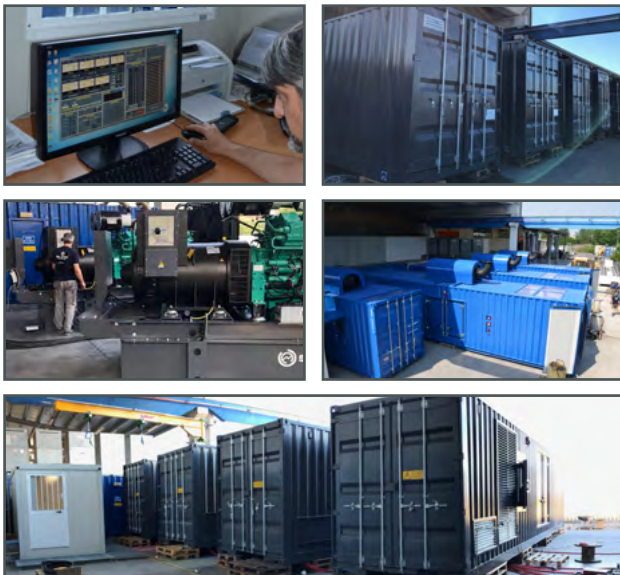
Testing Room 2 from 250 to 4000 kW

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>

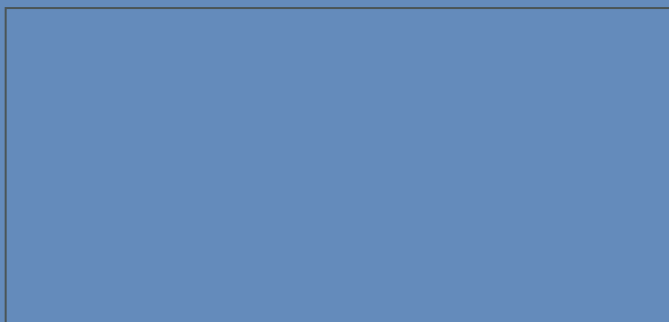


ELCOS
POWER GENERATORS

ELCOS SRL
Strada Statale 234 Km 58.250 -
26023 Grumello Cremonese CR - Italy
tel +39 0372 72330 - fax +39 0372 7233220
PI 01084730199
info@elcos.net - elcos@pec.elcos.net



assistenza@elcos.net
+39.0372.7233300
elcos.net/service



www.elcos.net