.PRO Professional

Power range 10-500 kVA

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

ELCOS
POWER GENERATORS

- 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

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.PRO

Power range **10-500** kVA

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

EU Standards Compliant

Diesel Generators

The generating sets of our PRO range cover emergency needs in support to the standard supply of electricity.
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.
They guarantee a reliable power supply and the maximum level of performance in the event of a sudden power failure.

Fully customizable to fit all needs

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

The PRO range covers the reference power from 10 to 500 KVA.

Engine and Alternator Brands

YANMAR Perkins FPT KOHLER IN POWER. SINCE 1920. VOLVO PENTA SCANIA Baudouin STAMFORD LINZ ELECTRIC

ELCOS
POWER GENERATORS

Electric power supply solutions
Designed for a high loadability index on trucks and in containers

Index of loading capacity

Power range	GS per camion	GS per container
10-20 kVA	32 GS	26 GS
30-40 kVA	26 GS	24 GS
50-100 kVA	10 GS	8 GS
130-165 kVA	4 GS	3 GS
180-200 kVA	3 GS	3 GS

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.

Applications

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

Industries - Shops - Hotels - Restaurants - Nursing homes - Gas stations - Malls - Farms - Livestock farm - Recreation centers

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CE FM APPROVED QAIC/IT/91790-A RoHS 2 2011/65/EU

.PRO

Power range **10-500** kVA

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

Wide opening doors
for easy maintenance

Residential muffler - 35 dBA
It reduces engine exhaust noise

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

Key locks
to grant maximum
security and protection

Magneto-thermal switch
accessible from outside

4 lifting hooks
for safe handling

Command and control panel
accessible from the outside and
protected from atmospheric factors

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 fuel cap
to refuelling the tank

Anti-vibration pads
attenuate the vibrations
caused by the unit

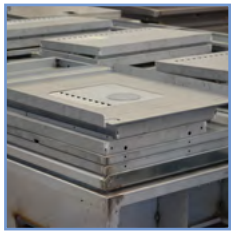
Panel on board

Engines liquids
-20 °C oil and antifreeze

4 lifting hooks
for safe handling

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

Aspiration louvres
guarantee a suitable ventilation in all conditions



Galvanized metal sheet
to increase strength and durability

General switch
mounted on the panel for a comfortable and safe connection

Safe handling
with forklift and pallet truck

Residential muffler -35 dBA
It guarantees reliable sound installation

QLE MC2 Plus

Applicazioni: EMERGENZA ALLA RETE

+011 VARIANT — Variant +011
Without integrated switching

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

➔ Engine measures
- Fuel tank level %
- Engine oil pressure BAR
- Engine Coolant temperature °C
- Total run timeBattery voltage
- Start-ups counter
- Engine speed

➔ Alternator measures
- Generator Voltage L1, L2, L3
- Generator Voltage L1-N, L2-N, L3-N
- Generator frequency
- Generator current L1, L2, L3
- Generator Apparent Power kVA
- Generator Active Power kW

➔ Communication ports
- Can-bus port
- RS485 port with Mod-bus RTU communication
- USB port for parameters saving and firmware update

➔ Equipment
- Microprocessor Logic
- Back-lit display
- Programmable from display
- 16 event log
- Icons management
- STOP button
- START button
- TEST button
- Reset alarm button
- Alarm mute button

➔ Pre-Allarms/Allarms
- Common Alarm
- Fuel reserve (pre-alarm)
- Low fuel level (alarm)
- Charge alternator failed (dinamo)
- Low oil pressure (alarm)
- Oil sensor failed (alarm)

+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.

- High coolant temperature (alarm)
- Low water level
- Water in fuel
- Battery undervoltage
- Battery overvoltage
- GS failure to start
- GS failure to stop
- Can-bus Failure
- No Can-bus communication
- Genset overload L1, L2, L3 phases
- Genset short circuit
- Genset overvoltage
- Genset undervoltage
- Genset high frequency
- Genset low frequency overspeed
- Earth fault (alarm)
- Maintenance request
- Emergency button pressed
- Remote emergency active
- Genset negative phase sequence

➔ Visualizations
- Pre-alarms
- Alarms
- Engine measures
- Alternator measures
- Operating mode
- Genset status
- Genset contactor status
- Glow plugs status

➔ Functions
- Remote Start and Stop
- Manual Start and stop
- Emergency stop button on panel board
- Remote emergency stop
- Remote test on load
- Scheduled start-ups
- MODBUS commands (Start, Stop, Reset, Test)

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

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

Cable outlet
to allow an easy connection

Inspection doors
with wide opening doors and airtight gasket

Exhaust terminal pipe
with tilting cap rain cover

GE.PRO

Power Generators 10 - 100 kVA

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

	LTP kVA		PRP kVA												
	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.PK.011/010.PRO	10		9		Perkins	403A-11G1	W50°	Stage 0	M	173x92x130	615	90	40	60	16
GE.YAS5.011/010.PRO	11	10	10	9	Yanmar	3TNV80F	W50°	Stage 5	M	173x92x130	546	90	50	60	16
13 kVA															
GE.PK.016/013.PRO	15		13		Perkins	403A-15G1	W50°	Stage 0	M	173x92x130	632	90	33	60	20
15 kVA															
GE.BD.017/015.PRO	17	25	15	23	Baudouin	4M06G20/5	W50°	Stage 0	M	173x92x130	728	90	25	60	20
GE.PK.017/015.PRO	17	19	15	17	Perkins	403A-15G2	W50°	Stage 0	M	173x92x130	632	90	30	60	20
GE.YAS5.017/015.PRO	17	17	15	15	Yanmar	3TNV88F	W50°	Stage 5	M	173x92x130	595	90	35	60	20
20 kVA															
GE.BD.022/020.PRO	21	32	20	29	Baudouin	4M06G25/5	W50°	Stage 0	E	173x92x130	747	90	20	62	32
GE.PK.022/020.PRO	22	26,5	20	25	Perkins	404A-22G1	W50°	Stage 0	M	173x92x130	702	90	23	62	32
GE.YAS5.022/020.PRO	22		20		Yanmar	4TNV88-BIECS	W50°	Stage 5	M	173x92x130	632	90	23	61	32
25 kVA															
GE.CU.030/027.PRO	27,5		25		Cummins	X2.5G2	W50°	Stage 0	M	188x92x130	771	90	19	65	40
30 kVA															
GE.AI.033/030.PRO	33	37	30	33	FPT	S 8000 AM	W50°	Stage 0	M	188x92x130	911	90	17	66	50
GE.BD.035/032.PRO	35	42	32	38	Baudouin	4M06G35/5	W50°	Stage 0	E	188x92x130	831	90	17	65	50
GE.PK.034/031.PRO	33	38	30	35	Perkins	1103A-33G	W50°	Stage 0	M	188x92x130	954	90	17	66	50
GE.YA.037/033.PRO	37	38	33	35	Yanmar	4TNV98	W50°	Stage 3A	M	188x92x130	793	90	18	65	50
40 kVA															
GE.BD.044/040.PRO	44	51	40	47	Baudouin	4M06G44/5	W50°	Stage 0	E	188x92x130	857	90	14	67	63
GE.YA.047/044.PRO	47	55	44	50	Yanmar	4TNV98T	W50°	Stage 2	M	188x92x130	829	90	13	65	63
50 kVA															
GE.AI.056/051.PRO	55		50		FPT	N45AM2	W50°	Stage 0	M	251x112x164	1139	250	27	67	80
GE.BD.055/050.PRO	55	63	50	56	Baudouin	4M06G55/5	W50°	Stage 0	E	251x112x164	1005	250	29	67	80
GE.PK.051/046.PRO	50	60	45	54	Perkins	1103A-33TG1	W50°	Stage 0	M	251x112x164	1210	250	31	67	63
60 kVA															
GE.AI.066/060.PRO	66	73	60	66	FPT	N45SM1A	W50°	Stage 2	M	251x112x164	1235	250	26	67	100
GE.BD.065/060.PRO	66		60		Baudouin	4M11G70/5	W50°	Stage 0	E	251x112x164	1387	250	23	69	100
GE.PK.067/061.PRO	66	75	60	69	Perkins	1103A-33TG2	W50°	Stage 0	M	251x112x164	1256	250	25	67	100
80 kVA															
GE.AI.090/080.PRO	90	99	80	90	FPT	N45SM3	W50°	Stage 0	M	251x112x164	1378	250	17	69	125
GE.BD.090/082.PRO	90	103	82	94	Baudouin	4M11G90/5	W50°	Stage 0	E	251x112x164	1530	250	19	69	125
GE.PK.088/080.PRO	88	100	80	90	Perkins	1104A-44TG2	W50°	Stage 0	M	251x112x164	1452	250	18	68	125
100 kVA															
GE.AI.110/100.PRO	110	120	100	110	FPT	N45TM2A	W50°	Stage 2	M	251x112x164	1451	250	16	69	160
GE.BD.110/100.PRO	110	132	100	120	Baudouin	4M11G120/5	W50°	Stage 0	E	251x112x164	1597	250	15	69	160
GE.PK.110/100.PRO	110	125	100	112	Perkins	1104C-44TAG2	W50°	Stage 2	E	251x112x164	1486	250	15	69	160

GE.PRO

Power Generators 130 - 500 kVA

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

	LTP kVA		PRP kVA											
	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
130 kVA															
GE.AI.131/120.PRO	135	140	120	130	FPT	N45TM3	W50°	Stage 0	M	320x122x208	1759	250	12	68	250
GE.BD.150/135.PRO	150	170	135	150	Baudouin	6M11G150/5	W50°	Stage 0	E	320x122x208	1965	250	11	69	250
GE.PK.151/137.PRO	150	169	135	152	Perkins	1106A-70TG1	W50°	Stage 0	M	320x122x208	1982	250	12	69	250
GE.VO.150/135.PRO	144	151	130	135	Volvo	TAD 532 GE	W50°	Stage 2	E	320x122x208	1925	250	12	68	250
150 kVA															
GE.AI.176/165.PRO	176	187	165	170	FPT	N67TM4	W50°	Stage 0	M	320x122x208	1954	250	9	70	250
GE.BD.165/150.PRO	165	200	150	181	Baudouin	6M11G165/5	W50°	Stage 0	E	320x122x208	2003	250	10	70	250
GE.DW.170/150.PRO	170	200	150	185	Doosan	DP086TA	W43°	Stage 0	E	343x122x208	2203	250	10	70	250
GE.PK.166/150.PRO	165	188	150	168	Perkins	1106A-70TAG2	W50°	Stage 0	M	320x122x208	2083	250	11	69	250
GE.VO.165/150.PRO	165	172	150	155	Volvo	TAD 731 GE	W50°	Stage 2	M	343x122x208	2137	250	10	69	250
200 kVA															
GE.AI.221/201.PRO	220	234	200	210	FPT	N67TM7	W50°	Stage 0	M	343x122x208	2126	250	7	70	320
GE.BD.220/200.PRO	220	250	200	225	Baudouin	6M16G220/5	W50°	Stage 0	E	370x122x208	2578	250	8	70	320
GE.DW.220/200.PRO	225	250	200	230	Doosan	P086TI	W43°	Stage 2	E	343x122x208	2364	250	8	70	320
GE.PK.220/200.PRO	220		200		Perkins	1106A-70TAG4	W50°	Stage 0	E	343x122x208	2255	250	8	70	320
GE.VO.225/205.PRO	225	252	205	226	Volvo	TAD 733 GE	W50°	Stage 2	E	343x122x208	2425	250	8	70	320
250 kVA															
GE.AI.275/250.PRO	275	290	250	260	FPT	N67TE8P	W50°	Stage 0	E	343x122x208	2256	250	7	71	400
GE.BD.250/225.PRO	250		225		Baudouin	6M16G250/5	W50°	Stage 0	E	370x122x208	2679	250	7	70	400
GE.BD.275/250.PRO	275	313	250	284	Baudouin	6M16G275/5	W50°	Stage 0	E	370x122x208	2679	250	6	70	400
GE.DW.250/230.PRO	250	285	230	250	Doosan	DP086LA	W43°	Stage 2	E	343x122x208	2465	250	7	71	400
GE.PK.275/250.PRO	275	250	250	225	Perkins	1206A-E70TTAG3	W50°	Stage 0	E	343x122x208	2373	250	7	70	400
GE.VO.275/250.PRO	275	287	250	255	Volvo	TAD 734 GE	W50°	Stage 2	E	343x122x208	2516	250	7	70	400
300 kVA															
GE.AI.332/305.PRO	332	363	305	330	FPT	C87TE4	W50°	Stage 0	E	395x154x220	3721	560	11	71	630
GE.BD.340/310.PRO	350	385	320	350	Baudouin	6M16G350/5	W50°	Stage 0	E	395x154x220	3695	560	11	72	630
GE.PK.335/300.PRO	335	389	300	352	Perkins	1506A-E88TAG5	W50°	Stage 0	E	395x154x220	3802	560	12	71	630
GE.SC.335/304.PRO	350	360	320	340	Scania	DC09 072A 02 13	W50°	Stage 0	E	395x154x220	3768	560	13	69	630
GE.VO.320/300.PRO	320	360	300	320	Volvo	TAD 842 GE	W50°	Stage 2	E	395x154x220	2565	560	14	69	630
350 kVA															
GE.AI.385/350.PRO	385	418	350	380	FPT	C13TE2A	W50°	Stage 2	E	395x154x220	3951	560	10	71	630
GE.BD.385/350.PRO	385	413	350	375	Baudouin	6M21G385/5	W50°	Stage 0	E	395x154x220	3906	560	10	72	630
GE.PK.400/350.PRO	400	440	350	400	Perkins	2206A-E13TAG2	W50°	Stage 0	E	395x154x220	4238	560	11	71	630
375 kVA															
GE.SC.410/375.PRO	410	451	375	410	Scania	DC13 072A 02 11	W50°	Stage 0	E	395x154x220	4189	560	11	70	630
400 kVA															
GE.AI.440/400.PRO	440	462	400	420	FPT	C13TE3A	W50°	Stage 2	E	395x154x220	4135	560	8	71	630
GE.BD.440/400.PRO	440	488	400	438	Baudouin	6M21G440/5	W50°	Stage 0	E	395x154x220	4096	560	9	71	630
GE.PK.450/400.PRO	450	438	400	400	Perkins	2206A-E13TAG3	W50°	Stage 0	E	395x154x220	4334	560	10	71	630
GE.SC.456/413.PRO	450	501	410	456	Scania	DC13 072A 02 12	W50°	Stage 0	E	395x154x220	4246	560	10	70	630
GE.VO.450/410.PRO	450	501	410	456	Volvo	TAD 1344 GE	W50°	Stage 2	E	395x154x220	4431	560	10	70	630
450 kVA															
GE.AI.500/450.PRO	500	550	450	475	FPT	C13TE6W	W50°	Stage 0	E	395x154x220	4322	560	8	73	800
GE.SC.503/456.PRO	503	553	450	503	Scania	DC13 072A 02 13	W50°	Stage 0	E	395x154x220	4316	560	9	73	800
500 kVA															
GE.AI.550/500.PRO	550	605	500	550	FPT	C13TE7W	W50°	Stage 0	E	395x154x220	4395	560	7	72	800
GE.SC.553/503.PRO	553	553	503	503	Scania	DC13 072A 02 14	W50°	Stage 0	E	395x154x220	4489	560	8	72	800

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
Radiator coolant level sensor

Canopy

Lift off doors kit

Batteries

DC isolator

Maintenance free high efficiency starter batteries

Exhaust

Spark arrestor

Exhaust flex pipe (3 mt lenght)

Exhaust pipe protection kit

Fuel supply

Automatic fuel refilling system on board

Quick coupling connectors with 3-way valve for external

Oversized fuel tank on board

Spare parts

Toolbox for routine maintenance

Optional

Electrical System

Option with QPE MC4 on board
Option with DSE 7320 on board
Option with ComAp AMF25 on board
Differential protection

Separate switching panels - ATS

QC - switching panel with management control board
QLTS - panel with motorized switch
Switching panel with management digital controller

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	*DC Voltage*
50 Hz **400 - 380 - 230 V** 60 Hz **480 - 240 - 208 - 220 - 277 V**	**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	*MEDIUM Voltage*
50 Hz **400 - 380 - 230 V** 60 Hz **480 - 240 - 208 - 220 - 277 V**	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.

QAIC/IT/91790-A

Other Elcos products

GE-RB	GE-SS	GE-BF	GE-TLC	GMV-BF	NO BREAK
					
GDC-HS	**GDC-SAPS**	**GE-ECHO**	**GE-ZIP**	**TF**	**AGRIPLUS**
					

ELCOS
POWER GENERATORS

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