

Power range 10-3000 kVA

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







Designed for the industry



Wide choice of engines



Factory tested

Generating sets designed to offer power supply solutions

The BF series generators offer a wide range of power and engine brands



Power range 10-3000 kVA

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







Diesel Generators base frame for genset room or Containers

BF generators are the optimal choice for applications in the industrial fields. **All BF Generators are factory** tested.



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 protection 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























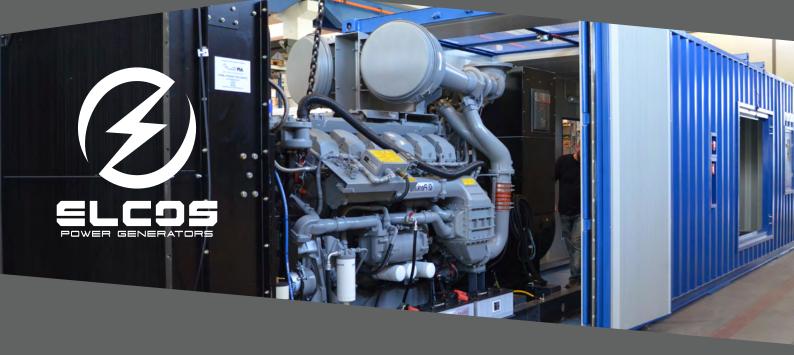












Electric power supply solutions

The range of Elcos Base Frame
Generators offers a reliable energy
source for industrial use.
Often used as a primary source
of supply in self-production
installations or as a mains
emergency back-up system.

The range of ELCOS Base Frame Generators allows management in parallel, stand alone or as master and slave modes.

The BF range covers the reference power from 10 to 3000 kVA, equipped with premium engines and alternators brand.

Applications

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



- -Industries
- -Data Centers



- -Hotels
- -Residential areas



- -Hospitals
- -Airports
- -Malls



- -Farms
- -Livestocks Farms



- -Military sites
- -Oil & Gas





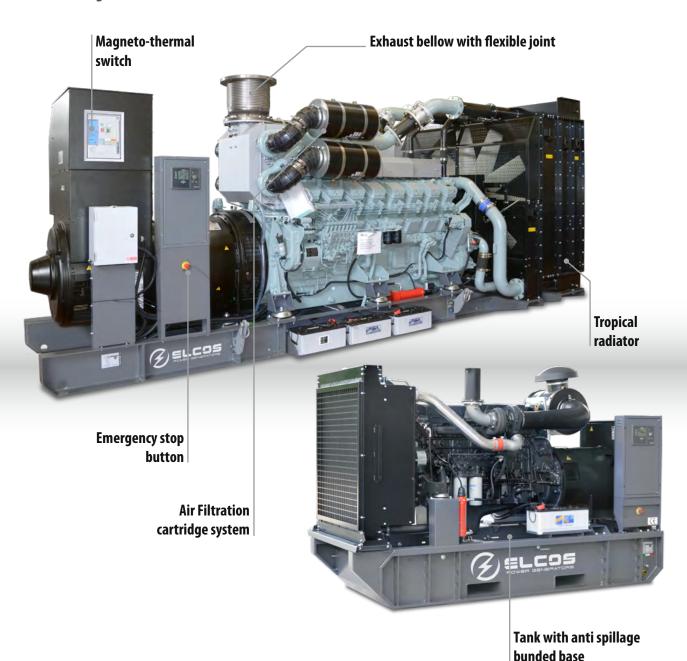








Power range 10-3000 kVA Power generators 1500-1800 RPM - 50/60Hz - 400-230 V/480-277 V





Wiring



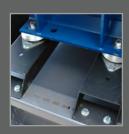
Engine heater



Automatic stop system



Tank filler



Anti-vibration pads



Integrated tank with oversized collection tank (optional)



External tank connectionsstandard feature in
models without tank
from 750 kVA upwards



Silenced muffler supplied in standard configuration, it reduces engine exhaust noise



Battery holder designed to facilitate maintenance and replace



Lifting lugs allow lifting of the machine, as standard from 750 kVA upwards



Base frame supports the machine and allows an easy handling



Rotating part guards to prevent injuries to the user



Pre-drilled frame for anchoring to the ground

Ø ELCOS



Engine Liquids -20 °C oil and antifreeze



Alternator with switch on board for a comfortable and



Connection copper bars where provided they allow to connect more cables on the same phase



Heat part guards

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



Oil change pump it facilitates oil change



POLYVALENT PANEL

Applications

- Auto-production (island)
- Emergency to the mains





Variant +011 Without integrated switching

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

→ Controls

- Manual start up and stop
- Automatic start up and stop from AMF
- Start up and stop through contact
- Fuel pump controlLock Reset
- Programmable automatic test
- Emergency stop button
- Main counter command closed
- G.s. counter command closed

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

Communication Interfaces

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

Equipment

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

→ 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

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• Genset power factor cosfi

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



EMERGENCY PANEL

Applications

Emergency to the mains







Variant +011 Without integrated switching

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

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 overvoltageGenset connected
- Mains connected
- Mains overvoltage
- Mains undervoltage Emergency button pressed
- Cumulative alarm
- Fuel reserve No fuel

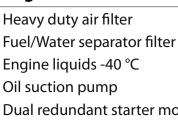












Electrical driven radiator





Dual redundant starter motors Super hot 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 Joint and bell housing for coupling in double-bearing alternators





Batteries

Redundant battery system DC isolator Maintenance free high efficiency starter batteries 24Vdc NiCd starter batteries





Exhaust

Catalytic converter (CAT) Particulate filter (DPF) Spark arrestor Residential muffler -35 dBA Assembly of residential muffler on board Exhaust bellow with flexible joint



















Electrical system

On board motorized circuit breaker for parallel managment **OPE**

16-relay module

RS485 Converter LAN/USB

MASTER / SLAVE device

GSM remote management modem

Remote panel

Remote management software

WEB remote management system via LAN/GSM/GPRS with GPS

Option with QBM DSE7320 controller on board

Option with QBM ComAp AMF25 controller on board

QLE / QMC

Differential protection





Fuel Supply

Oversized tank on board

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

Automatic fuel refilling system on board







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Separate Switching Panels - ATS

Separate Parallel Panels

Services

Factory Acceptance Test (FAT)

Vibration test

Tanks

Double wall fuel tanks with feet and tear valve Single wall fuel tank for outdoor use with bunded base and roof

External tanks and automatic fuel refilling systems

Automatic fuel refilling system on trestle Tanks with bunded base on trestle



Switching and Automatic Panels

QC Model	Genset Power kVA		Max Current	Change Over Switch	Dimensions	Weight	IP
	400 V	230 V	Α	Type	(L x W x H) cm	Kg	N
QC1.0060	40	22	60	Contactors 4P	60x25x80	47	54
QC1.0090	60	35	90		60x25x80	48	54
QC1.0125	90	50	125		60x25x80	50	54
QC1.0250	165	90	250	Motorized change over switch 4P 230V	60x25x80	56	54
QC2.0400	275	150	400		60x50x160	109	54
QC2.0630	410	250	630		60x50x160	125	54
QC2.0800	550	300	800		60x50x160	128	54
QC3.1250	800	450	1250		80x60x160	220	54
QC4.1600	1050		1600		80x80x190	270	54
QC4.2000	1400		2000		80x80x190	310	54
QC4.2500	1700		2500		80x80x190	350	54
QC4.3150	2200		3200		100x100x190	450	54
QC5.4000	2500		4000		260x100x190	700	54
QC5.5000	3000		5000		260x100x190	800	54



QLTS Load Transfer Switch Panels

QC Model	Genset Power kVA		Max Current	Change Over Switch	Dimensions	Weight	IP
	400 V	230 V	А	Type	(L x W x H) cm	Kg	N
QLTS.060	40	22	60	Motorized change over switch 4P 230V	40x16x45	13	54
QLTS.100	60	35	100		40x16x45	13	54
QLTS.160	100	58	160		52x20x60	20	54
QLTS.250	165	90	250		52x20x60	22	54
QLTS.400	275	150	400		60x28x80	40	54
QLTS.630	410	250	630		60x28x80	45	54



QP.APM Parallel Panels

O.QP.S107.CONV

QP Model	Reference Current	Genset Power	Dimensions	IP	
	Α	kVA	(L x W x H) cm	N	
QP.APM.BM Mana	gement paralle	l modules on boar	d without power sw	itch	
QP.APM.BM.DSE	-	130 - 3000	-	54	
QP.APM.BM.COM	-	130 - 3000	-	54	
QP.APM Managen	nent parallel m	odules with power	rswitch		
QP.APM1	250	60 - 160	60 x 60 x 190	54	
QP.APM2 400		180 - 260 60 x 60 x 190		54	
QP.APM3	800	300 - 550	60 x 60 x 190	54	
QP.APM4	1250	600 - 800	80 x 60 x 190	54	
QP.APM5	1600	900 - 1150	80 x 60 x 190	54	
QP.APM6	2000	1200 - 1400	80 x 60 x 190	54	
QP.APM7	2500	1450 - 1650	80 x 60 x 190	54	
QP.APM8	3200	1700 - 2200	100 x 100 x 190	54	
QP.APM9	4000	2300 - 2800	100 x 100 x 190	54	
OP.APM10	5000	2900 - 3500	120 x 100 x 190	54	

RS485/USB Converter for remote connection to a PC











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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



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

Other Elcos products

GE-RB	GE-55	GE-BF	GE-TLC	GMV-BF	NO BREAK
- G	5. 1 s		- Barrier - Barr		ELECOS
GDC-HS	GDC-SAPS	GE-ECHO	GE-ZIP	TF	AGRIPLUS
8 40	SAPS				







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

FTCO2 2KF

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









