ekabel®

Oil & Gas Solutions







GENSETS

E'kabel's generator sets cover all fuel technologies required in the market, between 10 to 3000kVA, single-phase or three-phase connection and voltage range as required by the customer

1 Custom-Made Standby Generators

- ✓ Diesel, bio-diesel, natural gas or LPG.
- ✓ Well-known and reliable Tier 1 engines
- Ratings up to 3000kW Prime standalone (up to 32 units in parallel).
- Single or Three phases output, with voltages up to 13800V.
- ✓ EPA Tier 4 final DNV 2.7-1 & C5-M offshore coating • Fire supression system (SIL certified upon request).

2 Mobile Generators

- Fully integrated units ready to be deployed.
- Ratings up to 450kW.
- Parallel/Load Share-Ready.
- ✓ Variable pitch fan to auto adjust for cooling and heating needs.
- 1500-hour service Interval option available.
- Engine protection (knock sensing on each cylinder) for gaseous solution.

3 Hybrid-Diesel-**PV-ESS Solutions**

NEMA 4X Enclosures.

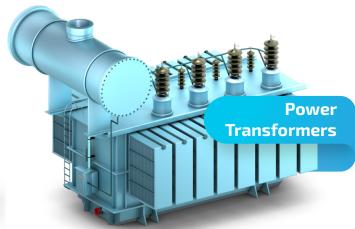






TRANSFORMERS





Cast resin transformers have a nominal power of up to 15MVA and 36kV, being durable and safe equipment characterized by their flexibility and cost-saving benefit.

Power Transformers have a nomial power of up to 750MVA and 500kV and comply with the highest technical specifications as well as national and international standards as IEC, IEEE/ANSI, NEMA, BS & AS.

Oil Distribution Transformers

The oil-filled transformer is a voltage transformation device that uses an oil cooling technique to minimize transformer temperature. It is placed in a welded steel oil tank filled with insulating oil. Ekabel's transformers are built up to 15MVA and 36kV We offer Small, Large, and Medium distribution as well as special transformers.













UPS

Oil and Gas facilities demand state-of-art energy storage to backup their critical process. Therefore, Ekabel recommends its battery series built considering a rugged design, high temperature tolerance, top quality and long lifespan features.



Applications

- Oil and Gas (Petrochemicals, Offshore, FPSO, Onshore, LNG plants, Pipelines etc.).
- Energy and Electricity (Power Generation, Transmission, Distribution).
- ✓ Water (Desalination, Treatment, Pipeline).
- Instrumentation and Process Control (Chemical, Mining, Steel, Pulp and Paper).
- ✓ All high-end industrial applications.

Features

- Continuous operation at room temperatures up to 40°C (55°C upon request).
- Self-performed battery test.
- Designed to withstand harsh environmental conditions (up to IP54).
- Complying to the most stringent industrial classification (IEC 62040-3, UL1778, CSA).
- ✓ Compatible with RS232/RS485, Profibus, TCP/IP interface.
- Market leading electrical features.





BATT CHARGERS



Features

- ✓ Design life up to 30 years.
- Rugged technology.
- Capacities starting at 15A up to 2000A.
- Enclosures up to IP54.
- Output voltage from 12Vdc up to 240Vdc
 12 programmable alarms / indications.
- Compatible with Modbus RS232/RS485, Modbus TCP/IP interface.





BATTERIES

Oil and Gas facilities demand state-of-art energy storage to backup their critical process. Therefore, Ekabel recommends its battery series built considering a robust design, high temperature tolerance, flame retardant, top quality and long lifespan features.



Nickel Cadmium

Main features:

- Reliable at rooms with temperatures up to 45°C.
- Capacities up to 1690Ah in a single cell.
- High cycling capabilities (up to 7500 cycles).
- Flame arresting vent.
- Lifespan 20 years plus.
- At the end of its life period, we support its recycling process.

OPzV

Main features:

- Capacities up to 3000Ah in a single cell.
- High cycling capabilities (up to 7500 cycles).
- Flame retardant. container UL 94 VO.
- Lifespan 20 years.

Litium

Main features:

- Energy Storage to MWh range.
- Higher energy density among all technologies.
- High cycling capacity.
- Reliable in rooms with temperatures above 30°C.





WHAT IS IT?

It is a fire resistant cable (CIC) that thanks to its Insulation ceramic technology maintains the integrity of vital circuits in high fire risk environments.

HOW DOES IT WORK?

In contact with fire, the cable is transformed into ceramic, thereby protecting the safety of personnel and assets.

BENEFITS

- High performance in fire conditions.
- Maintains connection of instruments, motor operated valves (MOV).
- Specially designed for the oil industry.



Our Ekafiable solution

This cable is suitable for use in applications where the integrity of the circuit is vital for the safety of personnel and assets. This cable offers high performance capabilities in fire conditions, along with the benefits and features associated with designs under NEC type TC-ER (exposed tray cable).

SERIE ZS - Ekafiable

SERIE ZF - Ekafiable

SERIE ZP - Ekafiable

SERIE ZH-X - Ekafiable









TESTING FOR ELECTRICAL CABLES IN FIRE CONDITIONS - INTEGRITY OF THE CIRCUIT

	IEC 60331 750°C / 1380° F. 90 min.	IEC 60331 Modified 3rd party to 1093°C / 2000° F. 90 min. 1093°C / 2000° F. 3Hi	
Ekafiable	✓		
Ekafiable TC	✓	✓	
Ekafiable MC	✓	✓	
Ekafiable HP (UL1709)	✓	✓	✓





FIBER OPTIC SENSING TECHNOLOGY

Optical fiber is widely known for its telecommunications applications, but there are other uses. The light beam of the fiber optic is very sensitive and can be altered by molecules stimulated by external changes (such as temperature, vibration and sounds). Once the wavelength of the light is affected our technology can analyze and pinpoint the signal deviation to translate it into a precise alert indicator, even over large distances.





Leak detection

Temperature changes together with acoustic anomalies can detect small leaks in a pipeline.



Third party interference

Accidental or intentional third-party activities can be detected, for example, by digging near the pipeline.



Monitoring of the heat trace

Changes in temperature can be detected as a result of a leak of gas or liquid, such as the escape of sulfur in a pipeline or LNG Tanks.





GLOBAL PRESENCE







Contact Information

Australia

Phone: +61 39523-2277 sales.au@ekabel.net

Panama

Phone: +507 310-0944 ventas.pa@ekabel.net

United States

Phone: +1 (832) 437-5798 sales@ekabel.net

Colombia

Phone: +57 1 432-2983 comercial.co@ekabel.net

Peru

Phone: +51 (1) 399-3200 ventaspe@ekabel.net

Venezuela

Phone: +58 (212) 961-9512 ventas@ekabel.net

Mexico

Phone: +52 (55) 6650-1509 ventasmx@ekabel.net

Spain

Phone: +34 686-041-085 info.spain@ekabel.net

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