



e'kabel

POWER-UPS

Solutions for energy storage

The availability of electricity for your critical applications will be guaranteed. E'kabel has power supply solutions adapted to the most demanding conditions.

POWER-UPS

Solutions for energy storage

Power supply without interruptions

All industries currently have critical loads within their infrastructure, especially if energy availability is vital to their operations.

Power grid disturbances could cause damage to assets, put people at risk and cause large financial losses.

At E'kabel we design customized solutions adapted to customer requirements that guarantee energy availability and quality for any critical load. In order to achieve it, we offer a broad portfolio for modern facilities, compatible with communication protocols existing in asset management systems.

Our commitment to safety and quality of our solutions is based on a deep knowledge of the importance of critical processes for our clients who require a reliable power supply.

We offer a wide range of equipment including Uninterruptible Power Systems (UPS), rectifier systems, chargers, batteries, generator sets, distribution panels, support, terminals, connectors, and pipes, as well as cables and conductors needed for medium and low voltage, control, communication, and instrumentation.

E'kabel assists its clients through all stages of the project. Our services include delivery of high-quality solutions and support during our product installation, deployment, power-up and maintenance.



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1 UPS (Uninterruptible Power Supply)

E'kabel's portfolio contains double-conversion UPS from 1kVA to 1600kVA for general purposes, industrial or marine environment; suitable for rack mounting or self-supporting and capable of protecting your load against all types of electrical service disturbances. They are built under UL and IEC.



2 Rectifier systems

Built under SCR-based technology for industrial use or high frequency for high efficiency. These solutions are especially suited for feeding critical loads in direct current (DC), without transfer time under all kinds of electrical service disturbances.



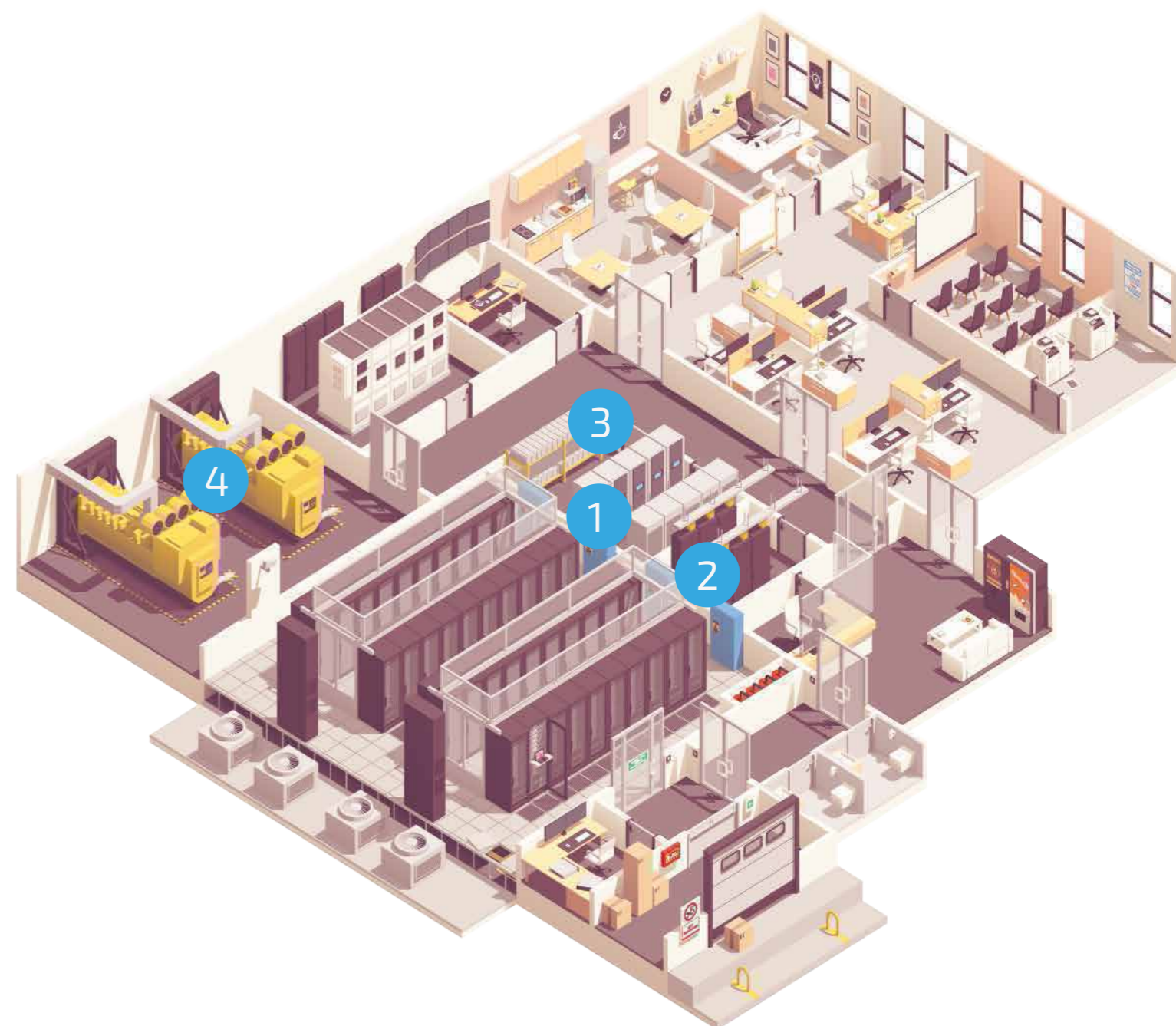
3 Batteries

Come in a variety of technologies, such as vented, VRLA, lithium-ion and nickel-cadmium. Designed for energy storage in industrial applications and are compatible with all critical power equipment currently on the market.



4 Generator sets

E'kabel's generator sets cover the three fuel technologies required in the market: diesel, gas, and gasoline; between 10 to 4000kVA, single-phase or three-phase connection and voltage range as required by the customer.



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5 PowerDistribution Unit (PDU)

Self-supported as a tower or rack-able (depending on capacity or customer demands) with multiple outputs, electrically protected (if necessary), with the purpose of distributing electrical energy to critical loads within a room or rack.

6 Switchgear / MCC

Electrical distribution panels and Motor Control Center, self-supported, low and medium voltage mounting, with power switches and power quality meter.

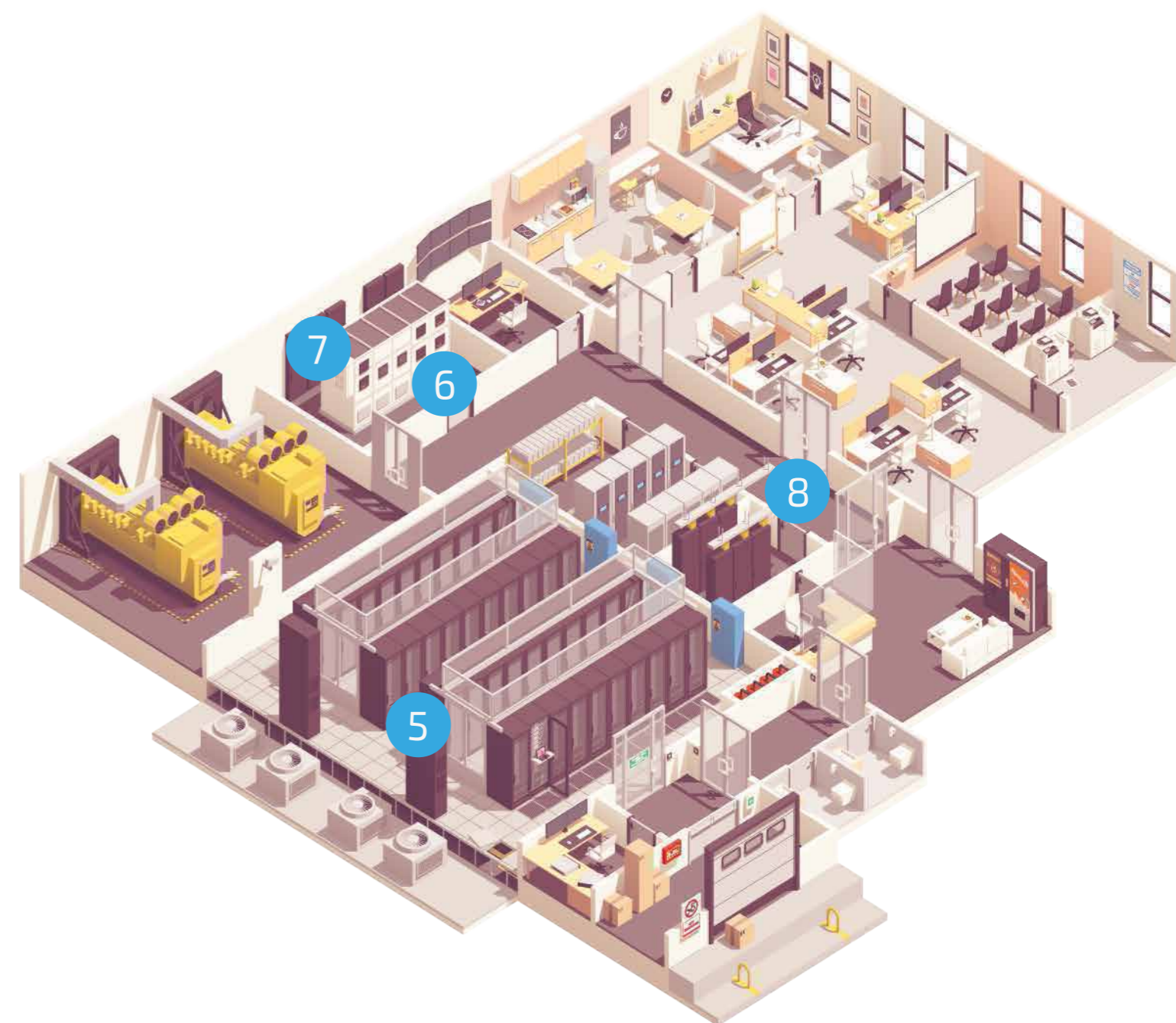
7 Distribution panels

Surface mounted or self-supported at low voltage, in capacities of up to 800A.

8 Solutions in Low Voltage Power Cables and Flexible Cable SERIES SH, SX, SX.LZ, FW

Specially designed to power electrical circuits. Manufactured, if necessary, with low-emission LSZH compounds and zero halogenated (toxic) gases according to international standards ICEA S-95-658, UL 44, UL 1685 and flame retardant according to UL 1685. These cables are widely used inside enclosed spaces, hospitals or rooms where energy density makes it necessary to minimize the spread of flame to avoid large loss of assets.

Additionally, we have flexible FW welding cables, built with type K braids, for connecting batteries and loads in direct current, particularly used in locations with confined spaces, high temperatures and demanding radius of curvature.



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9 Grounding system wires SC SERIES, SW SERIES, SX SERIES

Our solutions for grounding systems include bare copper conductors of high purity and accessories that allow a safe and efficient connection to overloads in the system and conduct currents in ground fault mode. They are manufactured in compliance with ASTM-B1, ASTM-B2, ASTM-B3.

10 Raceways and support solutions

E'kabel's raceways and support solutions provide the appropriate means for the installation of all the conductors and equipment of the electrical and electronic installations. They are manufactured under various international standards such as IEC, UL 723. They are also manufactured in various materials, from aluminum, stainless steel, and fiberglass, among others.



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1. UPS Solutions

Conventional

E'kabel's portfolio contains general-purpose double-conversion UPS with a self-supporting installation design. UPS are able to protect loads against all types of electrical service disturbances according to the IEEE1159: 2009 standard without transfer time.

Features

- Capacities up to 80kVA. Three-phase and single-phase options.
- Efficiencies up to 96%.
- Ability to resist overload in double conversion mode.
- Self-supporting or rack installation.
- Parallel installation (PU-CKH series).
- Adaptable autonomies of up to 60 minutes according to customer requirements.
- Built in accordance with UL 1778 and IEC.

Series **PU-CKD**



Series **PU-CKH**

Series **PU-CKE**



POWER-UPS

Solutions for energy storage

1. UPS Solutions

Conventional high capacity

High capacity double conversion UPS and high power quality with total galvanic isolation. UPS are able to protect their load against all types of electrical service disturbances according to the IEEE1159:2009 standard without transfer time.

Features

- Capacities from 60kVA to 1600 kVA.
- True galvanic isolation.
- Efficiencies up to 93%.
- Three-phase-single-phase and three-phase-three-phase conversion options.
- Self-supporting installation.
- Support for up to 4 pieces of equipment in parallel installation.
- Customizable backup runtimes based on the most demanding requirements from our clients.

Series PU-CPL



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Solutions for energy storage

1. UPS Solutions

Rugged type

Double conversion UPS capable of withstanding impacts, operating temperatures over 40°C and marine environment. Supplies high-quality energy to the load with total galvanic isolation. Is able to protect the load against all types of electrical service disturbances according to the IEEE1159: 2009 standard without transfer time.

Features

- Capacities from 10kVA to 1600kVA.
- Efficiencies up to 93%.
- Three-phase-single-phase and three-phase-three-phase conversion options.
- Ability to resist overload in double conversion mode.
- Self-supporting installation.
- Parallel installation of up to 4 appliances.
- Customizable backup runtimes based on the most demanding requirements from our clients.
- UL and CE certification.

Series **PU-GPL**



Series **PU-GPM**



POWER-UPS

Solutions for energy storage

1. UPS Solutions

Modular

E'kabel's portfolio contains general-purpose double-conversion UPS with modular design for self-supporting installation. Modular technology allows you to bring the reliability of your system to the level required especially for critical applications. Allows for protection of loads against all types of electrical service disturbances according to the IEEE1159:2009 standard without transfer time.

Features

- Allows increased reliability and maintenance.
- Capacities from 20kVA to 1000kVA.
- Efficiencies up to 93%.
- Three-phase-single-phase and three-phase-three-phase conversion options.
- Ability to withstand overload in double conversion mode.
- Self-supporting installation.
- Parallel installation of up to 4 pieces of equipment.
- Customizable backup runtimes based on the most demanding requirements from our clients.
- Built in accordance with UL and IEC Standard.

Series **PU-AVM**



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2. Rectifier systems

Silicon Controlled or High-freq. Modular Rectifiers

E'kabel rectifier systems are the solutions for charging battery strings and feeding direct current (DC) critical loads. SCR (silicon controller rectifier) is suggested when traditional, rugged and durable technology is required. On the other hand, high-frequency modular systems are order winners when low mean time to recovery (MTTR), higher efficiencies and energy density are demanded. Direct current critical loads are protected against all types of electrical service disturbances according to the IEEE1159: 2009 standard without transfer time.

Features

- Rugged technology for industrial appliances.
- Increased availability and simplified maintenance thanks to modular technology (High-frequency only).
- Long lifespan in adverse conditions.
- Capacities starting at 15A up to 1000A.
- Efficiencies up to 93% (SCR) and 96% (High-Frequency).
- Customized backup runtimes and technology according to the most demanding requirements from our customers.
- Built in accordance with IEC / UL Standard.

Series **PC-TTB**



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3. Batteries

Vented

E'kabel batteries are built with lead-acid cells immersed in an acid electrolyte, with a low antimony alloy, and a large reserve of free electrolyte inside the container, keeping it as a reliable source of energy in critical applications. In addition, the construction of positive electrode with tubular plates gives them great cycling capacity and excellent service time.

Features

- Long lifespan.
- Suitable for high cycling and deep discharges.
- 2V cell voltage.
- Capacities from 100 to 3000Ah. Construction of OPzS plates.
- DIN 40736-1992.
- Ideal for auxiliary services in electrical substations, power generation, and industrial sector.



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3. Batteries

VRLA AGM / GEL

E'kabel VRLA batteries are intended to support applications in telecommunications, industrial, oil and gas, and other critical stationary applications. They are built with lead-acid cells immersed in electrolytes absorbed in AGM (Absorbed Glass Mat) or in gelled form inside a sealed container. This container includes a recombination technology with a safety valve, which prevents excessive loss of water from inside the battery.

Features

- Ultra-low maintenance.
- Simple installation.
- Battery voltage 2/6 / 12V.
- Capacities from 1.2 to 3000Ah.
- AGM or Gelled.
- IEC Standard 60896-21 / 22-2004.
- For general use in UPS, telecommunications, health, industrial and renewable applications.



Series **PB-R**

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Solutions for energy storage

3. Batteries

Nickel cadmium

E'kabel NiCd (Nickel-Cadmium) battery series has options for long, medium and high discharge rates, which allow customized solutions suited to meet customer needs. They are rugged and safe batteries for use in critical installations. They can be built in two ways: either vented (allowing gases to escape freely to the environment) or with a regulating valve.

Features

- Up to 20 years of life.
- Ultra-low maintenance.
- Minimum vandalism.
- Voltage per cell 1.2V.
- Capacities from 14 to 1700Ah.
- Non-acidic electrolyte.
- Ideal for high criticality applications IEC 62259: 2001 Standard.



Series **PB-N**

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Solutions for energy storage

3. Batteries

Lithium Ion

This series of battery group are those whose active material is lithium, based mainly on LFP (LiFePO_4). They provide the most advanced technology of all batteries currently available. Their high cycling capacity and energy density make them ideal for applications where maximizing the use of available space is required.

Features

- Extended lifespan, up to double compared to lead-acid batteries.
- Minimum vandalism.
- Support electrical and mechanical abuse.
- Do not suffer from sudden death.
- Do not suffer from the memory effect.
- The electrolyte is not acidic.
- Require less space than other technologies.



Series **PB-L**



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4. Generator sets / Gensets

Gas / Dual / Diesel

E'kabel generator ratings start from 10 up to 4000kVA, single-phase or three-phase output with a voltage range of up to 13.2kV (mid-voltage). Further accessories, enclosures, fire suppressing systems, portable options and extended fuel deposits are available to comply with each project requirements.

In addition, E'kabel has hybrid generator solutions which use photovoltaic generation combined with an energy storage system in order to optimize fuel consumption at off-grid facilities.



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5. Power Distribution Units (PDU)

Power Distribution Unit

Distribution units with receptacles for installation in server racks or on self supporting shelves with capacities up to 160kVA.

PDU's can include an isolation transformer in addition with supervision and management features for connected loads, which could be three-phase or single-phase type.

Features

- Capacities up to 160 kVA.
- Management of loads connected through PLC.
- Support for integration in a remote monitoring system.

Series **PD-MPM**



Series **PD-SPD**



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7. Distribution Panels and Switchgear

Low and Medium Voltages

Our solutions can include distribution panels in low and medium voltages depending on customer requirements, with capacities between 50 to 3000A.

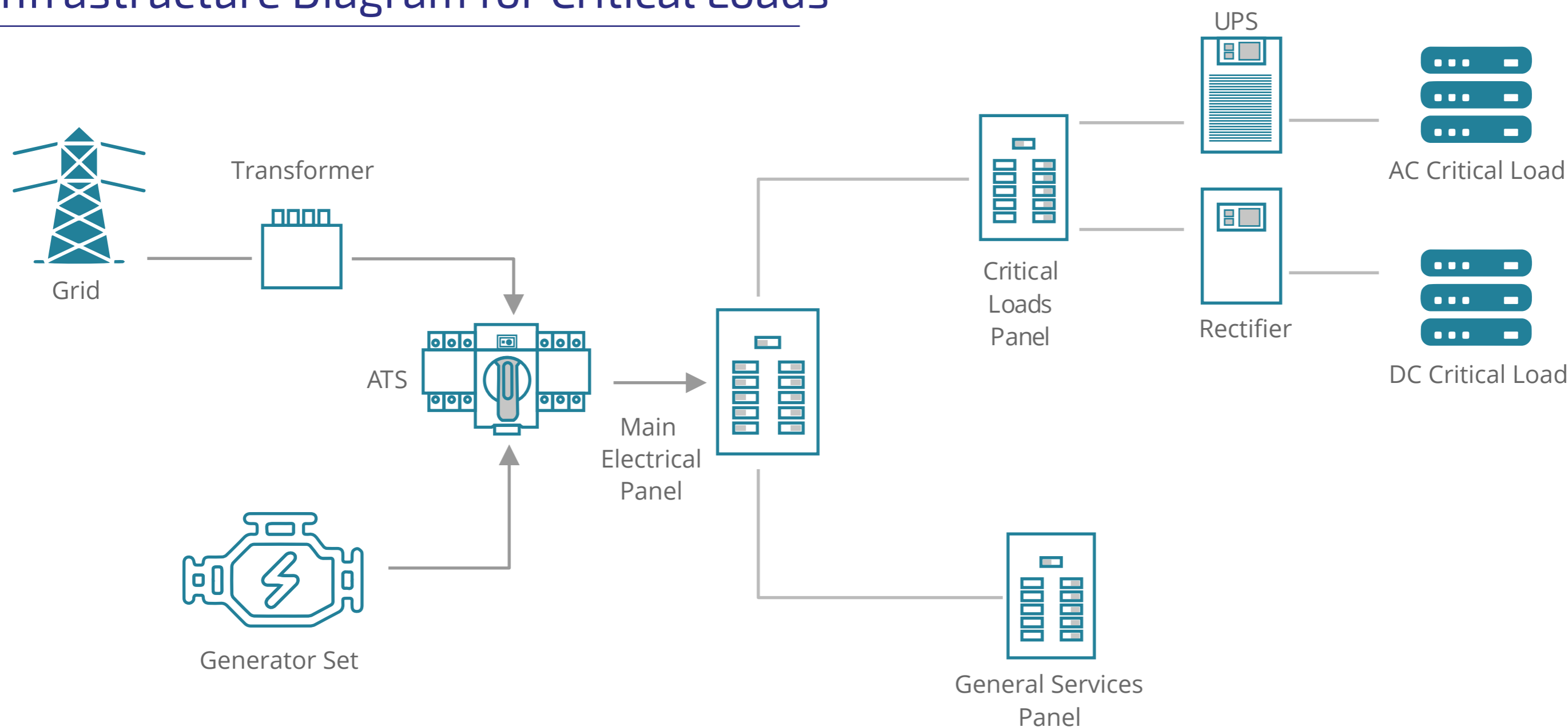
Under customer specification, they can be built with IP / NEMA protection for indoor and outdoor use.



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Infrastructure Diagram for Critical Loads



About Us

We are a team of action-oriented professionals with a vision for future progress.

We are passionate about designing solutions that meet the needs of our customers.

Our Offices

Our offices are located in Latin America, the United States, Australia, and Spain, E'kabel has consolidated its rapid expansion process through our participation in important and challenging projects.

Our Job

Based on expert knowledge, we design and integrate electrical, telecommunications and automation systems that optimize results for our clients and protect their most valuable assets.



OUR PHILOSOPHY

ekabel
www.ekabel.net

360 ° integration

When it comes to energy and telecommunications projects, we have what you need.

Our wide range of products and the ability to integrate them into a solution represent the cornerstone of our service.

Logistics Without Borders

Our expedited logistics process aligns with the requirement of our customers to meet their expectations. It is an emblematic part of E'kabel's service.

Knowledge Center

We have high-level engineers from different parts of the world who accumulate vast experience in the industries we serve.

Global Service Team

They are our experts dedicated exclusively to advise you.

Technology Transfers

Specific training on the most updated topics.

Flexibility

We adapt to your needs. Our geographical expansion and a large number of projects allow us to offer competitive advantages in both large and small projects.



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