INFRASTRUCTURES & ENERGY

HIGH-PERFORMANCE PROTECTION FOR LARGE CRITICAL APPLICATIONS

Transport, energy or hydraulic infrastructures are basic for social development, and our professional and personal well-being depends to a large extent on their correct functioning. Airports, railways, ports and highways as transport infrastructures; electricity and fuel networks as energy infrastructures, drinking water or drainage networks as hydraulic infrastructures... These facilities constitute a set of networks and services that are very critical for our society. For this reason and because of their ability to influence the development of multiple activities, these large structres need a continuous and stable electricity supply that does not suffer interruptions that affect their normal operation.

What would happen if the air traffic control radars lacked power supply? Or the traffic lights, operation rooms or water treatment plants?

Salicru offers a range of advanced technological solutions at the service of infrastructures as critical as those in this sector. It consists of devices that can work individually or as a complement, depending on the type of facilities to which they are connected, and offer alternating current supply continuity solutions, stability against voltage variations, control of the speed of machinery motors and adjustment of the level of voltage coming from the distribution grid. Salicru has a wide portfolio of appropriate solutions for each type of problem or electrical disturbance, which guarantee 24-hour power supply for the most sensitive systems.

Our main solutions are the **Uninterruptible Power Supplies (UPS).** These systems store energy to ensure continuity of AC supply.

The **variable frequency drives** control the rotating speed of machinery and motors.

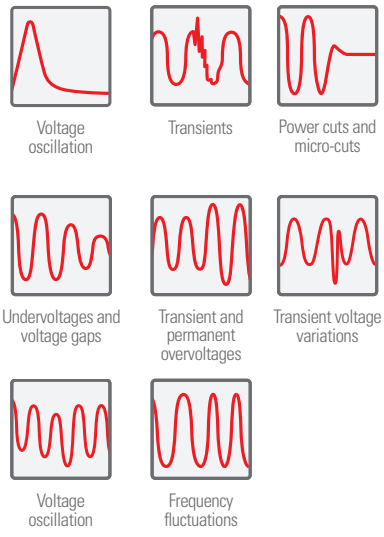
The **DC/AC systems** ensure output voltage stability against voltage variations.

The **Transformers and Autotransformers** adjust the level of voltage coming from the distribution grid.

As a consequence of the knowledge acquired in its industrial activity, Salicru also offers custom solutions adapted to specific problems, acting as a power electronics engineering instead of a manufacturing company.

DISTURBANCES

A wide range of electrical disturbances, as diverse and varied as the infrastructure sector itself, can affect normal operation. In addition to voltage drops and losses in the conventional distribution system, this collection of infrastructures are subjected to the adverse climatic conditions.



MAIN FEATURES

Salicru believes in innovation, its devices and associated services offer a recurring range of outstanding features that constantly seek to improve performance. Remote monitoring means saving on resources and gaining operational capacity, in addition to having a remote maintenance service that fully optimises upkeep. And another of Salicru's outstanding systems is Remote Management and Supervision which offers the possibility of remotely controlling different power equipment.

Aware of the current impact of energy expenditure on the industrial sector, Salicru has developed a number of devices with a high degree of energy efficiency that enable any devices connected to them to reduce both their consumption and environmental impact.

In addition to developing, manufacturing and marketing products, the experience that Salicru has accumulated over its history has led it to also providing engineering and consulting services to its customers to assist them in resolving electricity supply issues.

UPS

Salicru has developed a range of uninterruptible power supplies (UPS) whose features are ideal for large critical applications such as transport, power and water infrastructures, as they ensure the safeguarding of equipment and the proper management of systems.

They also boast parallel growth capacity or unlimited redundant security, monitoring and remote management options, incident notification, equipment health monitoring and preventive maintenance.

VARIABLE FREQUENCY DRIVES

There are increasingly different types of facilities that need to regulate the speed of their motors in order for them to adapt to changing load needs and for their energy consumption to be reduced. Salicru's variable frequency drives enable simple and efficient control of any application driven by asynchronous motors from 0.2kW to 500kW.

DC/AC SYSTEMS

Ensuring the functioning of all of these infrastructures is essential, and to achieve this, we also offer products that ensure alternative power sources, such as our DC/AC systems, devices that convert alternating into direct current (rectifiers, chargers) or direct into alternating current (inverters). They are specially designed to operate in very harsh and demanding operating environments.

TRANSFORMERS AND AUTOTRANSFORMERS

Salicru's IT series of low-voltage electrical transformers and autotransformers are used as electrical isolation for the reduction of mains disturbances or to adjust the level of voltage coming from the distribution grid. Autotransformers, with their serially-connected coils that do not provide galvanic isolation, have the function of converting one voltage to another, and, as such, are a more economical solution than transformers.

REFERENCES

93% of power supply problems are micro-cuts, which are easily preventable with a UPS

SLC CUBE4

Uninterruptible power supply with IoT
from 7.5kVA to 80kVA

SLC X-PERT

Uninterruptible power supplies
80 to 400kVA

DC POWER-S

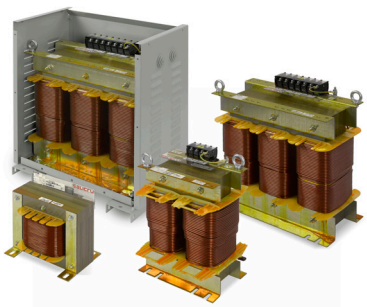
DC energy systems

DC POWER-L

Thyristor-controlled rectifiers 10A to 800A

IT

Electrical Transformers and Autotransformers



CONTROLVIT

Variable frequency drives from 0.2kW to 500kW

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