380V System Integration of Communication Power Supply Cabinets for Island Use

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What is a 380 VDC-PDS infrastructure?
Specifically,the Standard defines a nominal 380 Vdc-PDS infrastructure that interconnects sources of power to devices in the data/telecom center that draw the power. Provide for the use of safe power levels,as defined by the 2011 NFPA® National Electric Code® (see Related Documents Section 2.).

Why should you use 380 VDC?
Using 380 Vdc reduces the normal operating current by a factor of 7 compared to 48 Vdc - so reducing copper use per kW of load - and greatly increases the flexibility of site designs, with batteries no longer required to be close to the power converters, and the load able to be located 100s of meters away from the power system.

What is a 380 VDC UPS system?
Typical 380 Vdc UPS system configurations are based directly on existing telecom 48 Vdc concepts, which have been applied for decades in highly reliable applications. The following diagrams illustrate how these Topology Classes can be realized with 380 Vdc based power distribution.

Why should you choose Eltek 380 VDC systems?
Eltek's 380 Vdc systems provide operators with the ability to solve the combined challenges of ever greater power density, varying load types, and increased site flexibility without compromising on performance, cost, or serviceability.

This paper presents an overview of the case for the application of 380 Vdc as a vehicle for optimization and simplification of the critical electrical system in the modern data center.

Our base station cabinets can directly power nearly any communication equipment they house. The design of our racks and cabinets allow for high integration with different backup time and easy ...

Using your desired PLC or computer platform and HMI screen or manual interface, we can design your hardware control system. This can include ethernet, wireless communication and battery backup in a ...

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In order to meet the high power and high stability requirements of communication base stations for power supply, this paper designs a dedicated 500W switch power supply for communication base ...

Eltek"s 380 Vdc systems provide operators with the ability to solve the combined challenges of ever greater power density, varying load types, and increased site flexibility without compromising on ...

This heavy-duty enclosure securely houses a Stand By Power Supply and three (3) batteries along with equipment and cable required for fiber optic conversion and/or distribution.

The indoor and outdoor cabinet systems enable smooth operation and their modular designs provide operational flexibility. They feature power supply, distribution, and protection equipment as well as ...

Unique solutions for DSL, VoIP and 3G Base Stations illustrate the wide range of power system architectures and the opportunities available for higher level integration.

Kongsberg shore power is a flexible solution designed to be implemented in conventional power systems as well as complex power systems. It can easily be integrated with our power management ...

Power conditioning and distribution cabinet that offers the benefits of a custom-tailored system while offering the convenience and cost savings of a pre-packaged, factory-tested solution.

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