Mission-Critical Edge Deployments Require Premium Power Protection to Support Critical Applications

A Vertiv Application Brief

Overview

Certifications and Compliance

Liebert® GXT family - A market leader in the single-phase on-line UPS market. Global product line 120/208 and 230V markets. Increased power capacity from 0.5kVA up to 10kVA.

New intelligence and manageability features - Includes remote UPS firmware upgrade capability, intelligent battery health management and life calculations, and auto-detection of external battery run time capacity.

Designed for high availability - High power factor (0.9-1.0) ensures the connection of more loads and IT equipment. Minimum downtime of the device provided by hot-swappable battery modules. Improved air flow management for cooling and durability, self-sensing fully variable speed fans.

User-friendly operation and installation - Intuitive user interface, local configuration and management with easy to read gravity sensing graphical color display.

Longer service life and runtime of the batteries - Extended runtimes provided by the addition of external battery cabinets. Intelligent battery health management ensures a longer service life with optimized battery maintenance and replacement when needed.

Optimized energy and capacity management - Active ECO operating mode with up to 98% efficiency, online double conversion mode up to 95% efficiency. Energy Star 2.0 certified.

Seamless connectivity - Four onboard, user-definable, and programmable dry contacts. Supports SNMP, web, and sensors with RDU101 communications card.

Problem

High Level IT Power Protection is Required in Many Remote Locations

The retail, healthcare, finance, education and high-tech manufacturing segments are making big IT investments in network edge infrastructure. These critical, centrally managed IT assets are located in multiple, distributed environments that have few trained infrastructure professionals available on site.

The mission-critical nature of these installations is requiring IT management to employ self-healing and internally redundant systems that do not require frequent service calls, can be diagnosed from a central location and have some level of integrated predictive failure analysis.

Remote and potentially harsh environments are all key attributes of edge deployments. In these cases, it is essential to have an infrastructure provider that can deliver highly autonomous, fail-safe and connected power protection systems.

Solution

An Intelligent Rackmount UPS That Provides Critical Space Reliability and High Efficiency Operation

High-availability edge power protection starts with global platforms/systems that deliver repeatable form, fit and function anywhere in the world to increase reliability and assure familiarity within the IT operations team. Secondly, it requires rapidly configurable systems based on standard components to solve potentially thousands of different deployment scenarios. Finally, it must all operate and communicate as a system, not as individual components.

Today's IT managers are seeking highly reliable uninterruptible power supply (UPS) systems that protect critical computing operations at the network edge. These power protection systems must have the intelligent local and remote-control enhancements required to alert the user if there is an abnormal condition or the need for maintenance or service. They should also provide high energy efficiency in both online and economy modes.

The Vertiv™ Liebert® GXT5 is an online double conversion, single phase UPS ideally suited to protect critical infrastructure in both centralized and network edge applications. Scalable runtime options with matching external battery cabinets offer additional flexibility when extended uninterrupted power is required. Plus, the Liebert GXT5 provides battery health status and replacement date prediction for intelligent battery health management.

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The Liebert® GXT UPS system is easy to deploy and maintain due to its user-friendly LCD interface and remote management capabilities supported by the Vertiv RDU101 communications card. This enables compatibility with infrastructure management solutions such as LIFE Services, environmental sensors, *Trellis*™ Power Insight, Power Assurance Package and more.

With market leading efficiency and unity power factor operation, the Liebert GXT5 will meet critical application needs and assure that the IT edge is protected.

The Benefits:

Liebert GXT5 UPS Delivers Intelligent and Efficient Power Protection at the Edge

High power factor (0.9-1.0)
More active power enables more connected loads which reduces total energy consumption and generates cost savings.

Individually programmable output sockets
Remote management of power cycling to individual devices for improved security and optimum battery usage.

- 500VA to 1500VA has five groups of outlets with four groups controlled with programmed responses or an SNMP network.
- 2000VA and 3000VA models have six groups of outlets with four groups controlled with programmed responses or an SNMP network.

Battery cabinets with auto detection
Scalable runtime achieved with simplified integration of external battery cabinets.

Product warranty
Comprehensive coverage through a standard three-year advanced exchange warranty.

Detachable power distribution boxes (PODs)
Detachable POD with integrated maintenance bypasses in the 5-10kVA.

Efficiency up to 95% in online mode
Optimal airflow management via intelligent fan operation and self-sensing fan diagnostic function supports Energy Star 2.0 certification.

Efficiency up to 98% in Active ECO mode
Bypass mode of operation with a switch to double conversion during power anomalies offers superior protection with maximum efficiency.

Colored graphic LCD display with gravity orientation
User friendly interfaces provides insight to UPS status for easy installation, configuration and operation.

Compact rack/tower design
Space-saving UPS provides rack space optimization and flexible installation.

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SL-26400 (R09/19)