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POWERBOX
BBU1200 Series



Battery backup system for railway signalling

Railway modernization, now integrating digital control and additional safety functionalities, requires new generation of equipment for signaling - with monitoring and independent battery backup. Part of the modernization will require to maintain and upgrade existing systems without any traffic disruption, demanding high flexibility in the power solution deployed on track side.

To achieve this goal, Powerbox developed a modular concept, making it easy to adjust to different configurations. On installed based, power modules and monitoring units can be substituted by the new generation fitting into the existing chassis. In case expansion or high level of upgrade, requiring very short time to operation, the new modular racks can be customized to specific configuration to power new signaling equipment such as optical fiber transmission.



Combining high efficiency switching with an optimized topology integrating control and monitoring, the new generation of Powerbox Track Side Power System for signaling offers a significant cost saving compared to conventional technology. The platform includes a range of products which can be quickly modified to meet specific demand such as adaptive voltage and power to the length of the track and to the number of systems powered on the signaling network.

The power supplies units are enclosed in metal cases with a 230Vac input, delivering regulated voltage to the signaling equipment (ac and dc). The system also incorporates a power supply backup system based around SLA batteries.

The entire system is intended to be installed, maintained, repaired and eventually decommissioned with the minimum possible time spent track side. Any part/company likely to fail during the life of the system must have provision to be quickly and easily repaired or replaced. Our units are plug and play components so they can be changed very easily and quick

Features

- Active Power Factor Correction (PFC)
- Two independant battery strings
- Automatic battery capacity tests
- Build-in output distribution
- Integrated controller for power and charging management
- Various alarm signals
- All modules pluggable
- Complete subrack pluggable

Input

- 185-253 VAC or 93-253 VAC

Output

- 24 VDC / 1200W (battery voltage)
- Option 110 VDC / 1200W

Dimensions

- 19" x 6U x 235mm (DxWxH)
- Option 19" x 3U x 235mm rated 400W

About Powerbox

Founded in 1974, with headquarters in Sweden and operations in 15 countries across four continents, Powerbox serves customers all around the globe. The company focuses on four major markets - industrial, medical, transportation/railway and defense - for which it designs and markets premium quality power conversion systems for demanding applications. Powerbox's mission is to use its expertise to increase customers' competitiveness by meeting all of their power needs. Every aspect of the company's business is focused on that goal, from the design of advanced components that go into products, through to high levels of customer service. Powerbox is recognized for technical innovations that reduce energy consumption and its ability to manage full product lifecycles while minimizing environmental impact.

For more information

Visit www.prbx.com

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