

Hot Swappable Modular Battery Solutions

The BPC Rack Independent (BRI) Battery System is a hot swappable battery containment solution that incorporates the SAFEGUARD battery monitoring system.

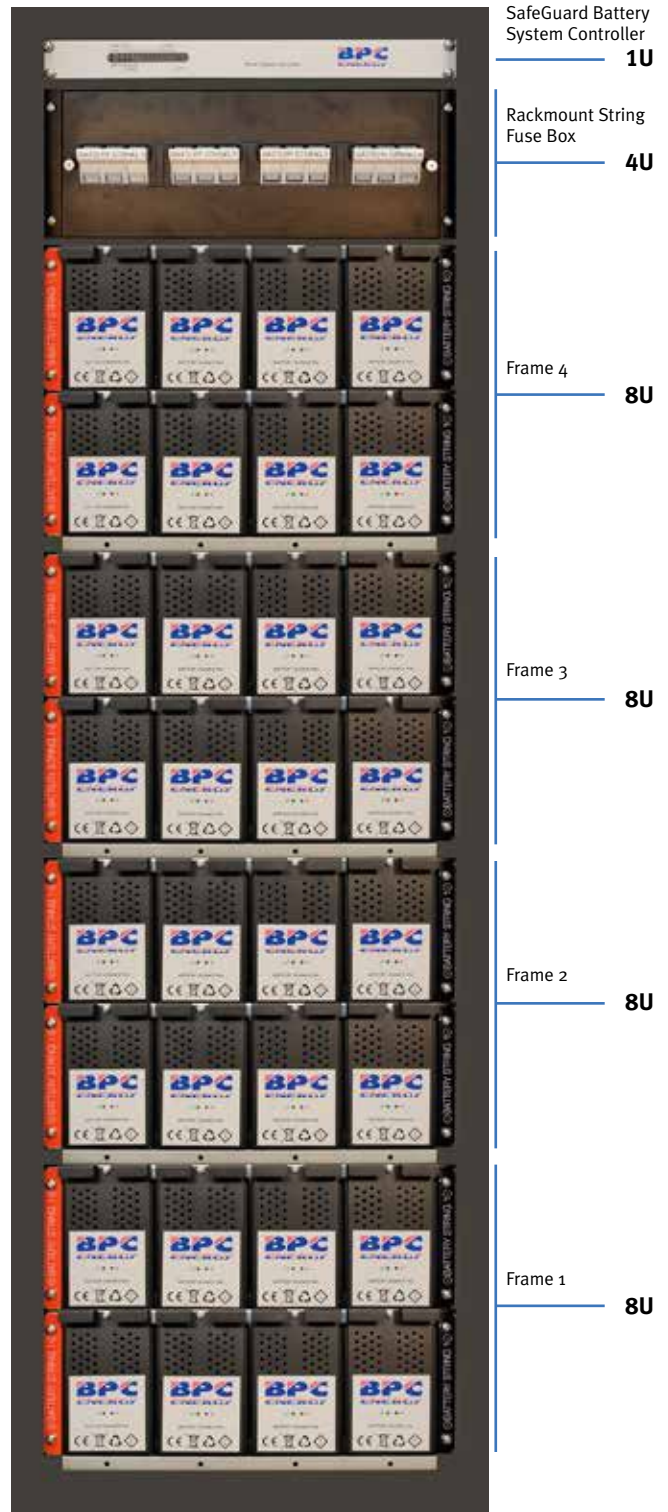
Designed to work with the PowerTower Modular solutions the BRI System provides the complete modular package. The system can be installed into any 19" rack that is 1000mm deep and suitable for the weight of the battery.

Rack Independent UPS solutions can also be integrated with modular battery solutions. Typically suitable for applications for 200kVA for 10 minutes autonomy or combinations of more autonomy but less power capacity.

BATTERY RACK INDEPENDENT FRAME



MODEL	PTG BRI-40F	PTG BRI-64F
Battery Type	VRLA Sealed Lead Acid Battery	
Included Battery Trays	4 trays x 10 blocks each	8 trays x 8 blocks each
Total number of Battery Blocks	40	64
Battery Voltage	± 240VDC	± 384VDC
Battery Mounting	19" Battery Tray	
Expected Battery Life	5 years	
Battery Volt-Amp-Hour Capacity	4320	6912
Maximum (HxWxD) per Frame	4U x 19" x 820mm	8U x 19" x 820mm
Cabinet Height	42U (max. 8 frames)	42U (max. 4 frames)
Cabinet Dimensions (mm)	2000 (h) x 600 (w) x 1000 (d)	2000 (h) x 600 (w) x 1000 (d)
Net Weight (with batts.)	105kgs	210kgs
Colour	black	
Approvals	CE, EN/IEC 62040-1-1, EN/IEC 62040-2, EN/IEC 62040-3, Eurobat General Purpose, UL 1778	



Battery cabinet with open door showing 4 frames

SAFEGUARD BATTERY SYSTEM CONTROLLER



The BPC BATTERY SAFEGUARD Monitoring System is key to guarding your battery to ensure that when required the battery is able to provide the necessary support to your UPS. Continuous monitoring of Voltage and Temperature provides immediate alarms to show of any existing issues within the system.

The SAFEGUARD voltage monitoring is based on identifying if there is any imbalance between the 12VDC battery blocks as well as monitoring the battery cabinet temperature in three positions within the cabinet. The system then provides alarms and visual indications that the system is outside its optimum voltage or temperature range.

The SAFEGUARD Monitor records all active alarms that are produced by the central part of the system, the BMS Controller making sure active alarms are safely logged every 15 minutes into the historical log. The historical LOG is large enough for 18 months data and work on the basis "first in first out". During yearly preventative maintenance the historical LOG will be exported and analysed by the maintenance engineer.

- Dimensions: 19" housing, 1U x 300mm depth
- Connects to sensors of maximum 8 strings
- Stores up to 18 months of battery information

RACKMOUNT STRING FUSE BOX (2 STRING OR 4 STRING)



- Dimensions: 19" (w) x 150mm (d) x 4U (h)
- Cable between UPS and fuse box based on side by side installation

LARGER BATTERY SOLUTIONS

For applications requiring much longer backup time or the UPS capacity exceeds the normal data centre room requirements. The standby battery system might be physically too large or just very heavy for installation inside the data centre, in this case an alternative arrangement has to be found. BPC Energy designs and manufactures its own PowerStor™ battery range and, in addition to hot swappable long life battery modules, we also have a versatile range of lead acid batteries with suitable AGM and GEL sealed technology for both 12 year and 15 year design life batteries.

The wide choice of capacity ratings can be provided with matching UPS rackmount frames, open steel battery stands, enclosed cabinets, separate battery room design and even outdoor solutions to suit every possible environment.



LITHIUM BATTERY SOLUTIONS

In certain applications where space is restricted, and a huge density power storage is required in perhaps a hostile environment with high temperature variations, a more advanced battery solution might be a better solution.

Lithium technology is now becoming well proven and understood for powering larger applications. BPC Energy has a 48 volt rackmount Lithium Ion Module which is developed for energy storage and standby applications.

When considering total cost of ownership these advanced battery solutions are becoming very commercially attractive, offering smaller volume and light weight installations with excellent cycling characteristics, plus the ability to operate at high ambient temperatures might be more suitable for harsh environments.

IT managers will also be relieved that Lithium batteries can be recharged much faster than conventional lead acid batteries returning the UPS system back to full protection in a much shorter time.



96kWh Lithium Battery

Advanced Power Conversion Solutions

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India, Pakistan, Sri Lanka.

To ensure a high level of pre and post-sales support is offered, BPC work closely with distributors, providing key commercial and technical training whilst providing competitive costing structures tailored to specific region markets, ensuring the most suitable BPC products are offered. We pride ourselves on long standing relationships with our partners which is reflected in the ongoing support provided locally.



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