



# Get more juice out.

## PowerShield battery management systems

Helps you get every last drop out of your battery investment, while ensuring maximum availability.

# How can you get maximum juice?

Monitoring your batteries isn't enough. You want to be in control of how they perform, with the confidence your battery bank will always be available, and that you are getting the best possible life out of your battery investment.

## Take control of your batteries

PowerShield provide the most advanced and cost effective systems for monitoring and managing stand-by battery banks. PowerShield's continuous data sampling, reporting and battery management capability delivers peace of mind that your batteries will perform when needed, and you are maximising the life of your batteries.

To ensure the integrity of the battery system, it is necessary to detect failing blocks before they affect the performance of the entire system. The strength of a battery monitoring system is proportional to the number of points monitored and monitoring frequency. With regular monitoring comes the accumulation of data, the ability to report and spot trends, and the ability to make smart decisions.

## Why PowerShield?

- Gain complete visibility of your battery banks, from identifying potential faults to monitoring performance.
- Maximise your investment by optimising battery life.
- Reduce time and effort spent monitoring battery systems.
- Make it easier to learn, use and share information.
- Enjoy best-in-market customer support.

## About PowerShield

Established in 1996 and based in Auckland, New Zealand, PowerShield is independently owned and works with all the leading power conditioning and backup power companies. Manufacturing of system components is done in-house at our factory in Auckland, giving us control of quality and the ability to be flexible and agile for our customers.

PowerShield is committed to continuous improvement, quality management and fulfilling obligations to our staff and the environment. The company is certified to ISO9001 Quality standard, ISO14001 Environmental management standard and OHSAS18001 Occupational Health and Safety management system certification. Our chief technology officer is a working group member of the IEEE Stationary Battery Committee ensuring the company is at the forefront of the industry, continuously working toward providing smarter battery management solutions.

## PowerShield 8

PowerShield 8 is a complete hardware and software solution for monitoring an unlimited number of batteries. Utilising a suite of components, the system is tailored to fit the needs of your company, ensuring you are maximising the life of your batteries.

### MEASURE with mSensors

Gather individual voltage, impedance (Ohmic value) and temperature data, for VRLA, VLA and Ni-Cd batteries.

### RELAY with the Hub

Applied per battery string, the Hub takes inputs from in-built sensors and sensors at the battery rack and consolidates for transfer to the Controller.

### PROCESS with the Controller

At the heart of PowerShield 8, the Controller captures, processes and stores data from the battery sensors.

### MONITOR AND ANALYSE with Link software

Comprehensive monitoring from a single control point, from batteries held in a single room through to large numbers of batteries held across multiple facilities or countries.

## Brands getting the most out of their battery investment

We operate globally and have installed battery monitoring solutions with customers in over 30 countries around the world. International customers include Bank of America, Barclays, Bloomberg, BT, CenturyLink, Chevron, Equinix, Huawei, IBM, Intel, Microsoft, Morgan Stanley and NASA.



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