PowerStor Battery Analysis & Care System (BACS)



Civil Aviation Authority Installation, Europe

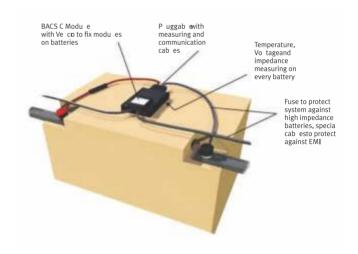
BPC BACS is the most advanced product of its kind on the market today. An Ethernet integrated battery monitoring and management system, BACS uses web management techno ogy to monitor the temperature, interna resistance and vo tageof every sing ebattery in a given system.

In critica standby app ications the battery can be a age integra part of the system and can a sobe an unpredictabe e ement of the design. Battery condition can be invisibe and not determined from its appearance making ear ydiagnosis hard, especia yif probemshave been experienced in transit, storage, instation ation poor site conditions or misuse causing failue of just one cewhich can eadto open-circuit of a competebattery.

The ana ysispart is the continuous checking of the interna resistance, temperature and vo tageof every sing ebattery b ock. The care part is an equa isation process that corrects the charging vo tagefor each battery b ockas we as constant monitoring and contro ingln addition, it can manage environmenta measurements such as temperature, humidity etc., as we as the UPS and Inverter system.

- » Monitoring and regulating the charging process
- » Individual voltage regulation through the equalising process
- » Equalisation to avoid overcharging and undercharging
- » Indicators to alert battery problems
- » Protection of neighbouring batteries
- » Increase battery capacity
- Early warning and alert system permits early treatment
- » UPS / Inverter power manager
- » MODBUS / PROFIBUS / LONBUS / SNMP compatible
- » Analysis software provided
- » Effectively extends the battery life expectancy
- » Reduces frequent site inspection and the need for manual measurements
- Very efficient and economical method of testing
- » Intelligent battery disconnection

BACS effective ymitigates the possibi ityof overcharging the batteries, he pingto prevent gassing and drying, as we as a eviatinghe possibi ityof undercharging, preventing su fation. Through the equa isation process, the batteries are kept at an optima charging vo tageand therefore, in an optima state of hea th. By managing the batteries charging vo tages, BACS vast yimproves the durabi ityand re iabi ity of the system.







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The web browser interface of the system is designed for easy configuration, disp aying a system va uesand events and a armsthrough a flexib eevent manager.

The BACS WebManager acts as the centra contro unit by gathering, eva uatingand storing a information on its interna flash memory. This can oga system data for a duration of at east6 months up to 3 years dependent on the size of the system. A data can be down oadedand archived over the network in order to free-up storage capacity for further data oggingand ana ysisusing the BACS Viewer software or other graphica programmes.

BPC BACS monitors key battery parameters and sets thresho ds,therefore a wing advanced warnings, via audio, video and network messages, of a system event that requires attention.

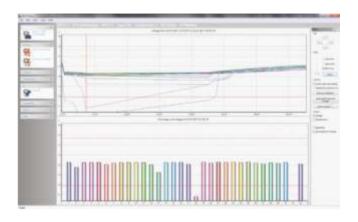
ENHANCED MAINTENANCE

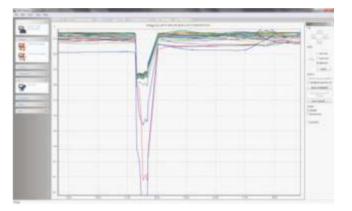
Typica battery prob ems ikesu fation, gassing, dry-out and therma runaway are easi ydetectab egiven proper monitoring.

The BPC BACS improves service qualityby providing remote monitoring through the internet, VPN or any other network that a ws down oading of real time data and battery history.

It is possib eto test batteries without disconnecting them from the system meaning that testing and maintenance can take p accunder rea operating conditions and requires no downtime.







EXTENDED BATTERY LIFE

The service ifeof a battery string depends on the weakest ce of the weakest battery in a string. The BACS equal ising process a was each of the batteries within a string to be maintained at optima voitage ewe s,e iminating the ineffects of improper charging. The constant care provided by the equal ising process has been shown to increase service if eby more than 30%.

BATTERY PROTECTION

The BPC BACS system can be the protective entity in the system by continuous ymonitoring each parameter, and a DC Iso ator can be tripped if the batteries hit a arm eve sin impedance, temperature or vo tage. This he pse iminate and prevent therma runaway of the battery.

ALERTING

The BPC BACS system continuous ymonitors high and ow parameters of each individua battery b ock. It wis send out warnings and then a armswhen different imitsare reached. These a ets are sent instant yto the person responsible for maintenance via email or any other compatible device.

The BPC Group

BPC is an international company operating for 20 years globally, with partners and distributors located around the world.

These regions include:

EUROPE

UK, France, Germany, Gibralta, Ireland, Netherlands, Malta, Norway, Portugal.

MIDDLE EAST

Bahrain, Jordan, Kuwait, KSA, Lebanon, Oman, Qatar, UAE, Yemen.

AFRICA

Burkina Faso, Democratic Republic of the Congo, Egypt, Ethiopia, Kenya, Ghana, Libya, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda, Zambia.

FAR EAST & ASIA

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.



The British Power Conversion Company

Authorised Distributor



Lighting-Power-Control

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