



Industrial Batteries (UK) Limited

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ALCAD - XHP Range : Key Features

Their outstanding features are :

- ✓ flooded, not starved electrolyte, cells maintain advantages of nickel-cadmium batteries in difficult environments
- ✓ low maintenance resulting from the small floating current due to the high conductivity of the plate structure
- ✓ requires less space due to the high energy density plates
- ✓ narrow voltage window gives high charge acceptance at low voltages
- ✓ high performance due to the large surface area sintered positive plates
- ✓ fulfils all the requirements of the IEC 60623 Standard

The major design features of the Alcad Single Cell ranges are :

- ✓ fully welded internal construction of steel components
- ✓ sintered positive electrodes and plastic bonded negative electrodes
- ✓ strong welded polypropylene containers as standard
- ✓ special separator to ensure controlled recombination and reduce footprint
- ✓ flame arresting vents as standard



For a full commercial brochure for these products or for further details, please do not hesitate to contact us.



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ALCAD - XHP Cell Range : Advantages

The XHP is designed for vital UPS, engine starting and emergency backup duties requiring instant guaranteed power. The built-in reliability of sintered/pbe technology and alkaline electrolyte provides up to 20+ years of cost-effective trouble-free service, requiring virtually no maintenance.

Future-proof construction

XHP's steel superstructure and tough polypropylene casing hold sintered and plastic-bonded electrodes with copious amounts of alkaline electrolyte. XHP batteries only require topping-up every 10 years.

Predictable cost and long life

Owing to electrochemistry and sturdy construction, accurately predicting your battery's life-cost is now possible. XHP can easily repay your investment within 3-6 years – well within the lifetime of your application.

Reliable in all conditions

XHP is specified onshore for hospitals, traffic control, power generation and process control, and offshore in oil and gas exploration and other hazardous marine installations, where the implications of main power supply interruption cannot be tolerated. Generally operating between temperatures of -20°C to $+50^{\circ}\text{C}$, XHP batteries can tolerate extremes of -50°C to $+70^{\circ}\text{C}$ for short periods. They can also remain in storage for many years before commissioning without affecting subsequent performance.

Best for engines – perfect for UPS

Electrical abuses such as AC ripple, over-discharging, voltage reversal or high overcharge currents have no effect upon XHP. Delivery of high power within a narrow voltage window perfectly suits XHP for UPS duties. There is no risk of sudden death, and because Ni-Cd batteries do not produce corrosive fumes, they can be installed next to sensitive electronic equipment.



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