



Industrial Batteries (UK) Limited

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Greenlands Business Centre  
Studley Road, Redditch, Worcestershire, B98 7HD  
Tel: 01527 520052 Fax: 01527 520053  
E-mail: sales@ibluk.co.uk, Web: www.ibluk.co.uk

## ALCAD - Single Cell Range : Key Features

### Their outstanding features are :

- ✓ operation over a temperature range between  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  , with short term extremes of  $-50^{\circ}\text{C}$  to  $+7^{\circ}\text{C}$
- ✓ life in excess of 25 years in many applications
- ✓ good performance at low temperatures
- ✓ resistance to high temperature ageing and to electrical and mechanical abuse
- ✓ simple maintenance and low installation cost
- ✓ low life-cycle cost
- ✓ meets and exceeds 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
- ✓ strong welded polypropylene containers as standard
- ✓ flame retardant welded containers, as option
- ✓ flip-top flame arresting vents as standard (UL recognised)
- ✓ insulated cable connectors and end lug covers in line with EN 50272-2 (safety) with IP2 level.



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



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## ALCAD - Single Cell Range : Ranges

**The Single Cell portfolio comprises three ranges of high, medium and low rate discharge types.**

### H Range

The H range uses very thin plates and is designed for applications where there is a demand for a relatively high current over short periods, usually less than 30 minutes in duration. The applications can have frequent or infrequent discharges. The range is typically used in starting and power back-up applications.

### M Range

The M range is designed for applications where the batteries are usually required to sustain electrical loads for between 30 minutes to 3 hours or for mixed loads which involve a mixture of high and low discharge rates. The applications can have frequent or infrequent discharges. The range is typically used in power back-up applications.

### LE Range

The improved L range (designated LE) has the thickest plates and has been specifically enhanced in terms of energy efficiency, cycling and high temperature operation, to optimise it for applications where the battery is required to provide a reliable source of energy over relatively long discharge periods. Normally, the current is relatively low in comparison with the total stored energy and typical uses are power backup and bulk energy storage.



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