

Single Cell range

NEW



A proven capability for all stationary applications

Alcad's versatile Single Cell design is based upon robust Ni-Cd pocket plate technology. Resistant to electrical abuse, shock and vibration, it provides reliability in some of the most challenging operating conditions, even in fluctuating temperatures. Discharge duration and end of discharge voltage criteria can be met easily from the wide range of low, medium and high rate discharge types. Additionally, a generous electrolyte reserve enables a minimal maintenance requirement over a service life of 20+ years, achieving optimum Total Cost of Ownership (TCO).

Extended and improved to meet evolving needs

Alcad's Single Cell range has now been upgraded, featuring three significant advances:

- **Broader range** – additional capacities enable sizing a battery more precisely to requirements for the optimum, most cost-effective solution.
- **Lower maintenance** – water topping-up interval is up to two times longer, contributing to reduced battery maintenance and lower overall TCO.
- **Improved chargeability** – faster recharge time maximises performance for better system reliability and continuity.

Ni-Cd for proven reliability even when operating in difficult and demanding conditions

- Delivers performance, reliability and a long, totally predictable service life – with no risk of sudden death failure.
- Ensures a 20+ years service life at + 25°C (+ 77°F).
- Even at + 35°C (+ 95°F), service life is reduced by just 20% compared with 50% for a lead-acid battery.

Define the ideal battery for every application

- Performance optimised for each application according to the plate thickness.
- Optimised design boosts electrical performance by up to 10% depending on discharge time.
- More capacity steps enabling the battery to be sized more closely to exact requirements.

	LCE / LBE... P	MC / MB... P	HC / HB... P
Range of cells	58	68	47
Capacity	10 – 1690 Ah	9 – 1440 Ah	9 – 920 Ah
Characteristics	<ul style="list-style-type: none"> • Thick plates • High energy • Low cost per Ampere at low rates 	<ul style="list-style-type: none"> • Medium power • Optimised between H and L design for mixed loads 	<ul style="list-style-type: none"> • Thin plates • High power • Low cost per Ampere at high rates
Performance	For low rate discharge over long period between 1 and 100 hours	For varied loads with low and high discharge rate or medium rate discharge between 30 minutes and 3 hours	For high rate discharge over short periods less than 30 minutes
Applications	Power back-up applications		Power back-up and starting applications

Delivering quality

ALCAD

Low maintenance contributes to lower overall TCO

- Topping-up interval extended by up to 2 times in standard conditions at + 20°C (+ 68°F) and at float voltage.
- A simple annual maintenance inspection is recommended to check correct functioning of the charging system, battery and auxiliary electronics.

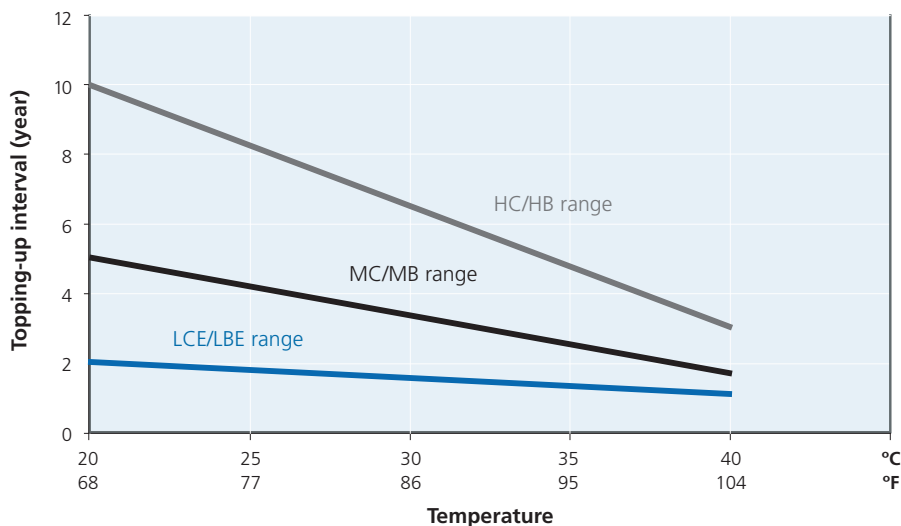
Higher chargeability to minimise down time

- Faster recharge time enables at least 80% recovery of capacity from fully discharged conditions at float in 15 hours.

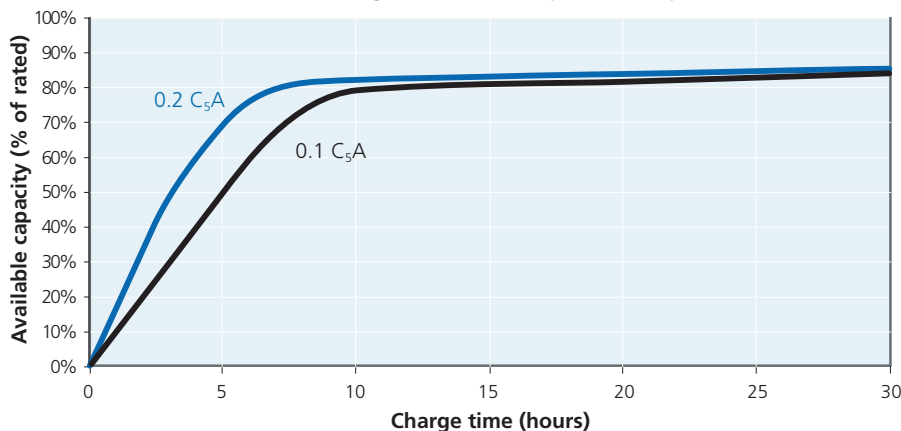
Compliant to highest standards

- Electrical characteristics
 - Certified IEC 60623
- Safety
 - Compliant with UL 1989 - Section 7 - Flame arrester vent cap tests
 - Compliant with EN50272-2 / IEC 62485-2 with IP2 level for terminal and connector protections

Typical topping-up interval at recommended charge voltage



LCE/LBE range
Available capacity after constant voltage charge 1.42 V at + 20°C (+ 68°F)
Available charge current 0.1 C₅A or 0.2 C₅A



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