AGM Batteries Ltd

Product data

ICR34600 Li-ion Cell

Electrical characteristics

Nominal voltage	**3.6V**
Rated Capacity	**5.2Ah**

Physical characteristics

Height	**60.3 ±0.2mm**
Diameter	**33.9 ±0.1mm**
Weight (nominal)	**125g**

Operating conditions

Discharge temperature range	**-40°C to +70°C**
Maximum discharge current	**10 Amps continuous**
End (of discharge) Voltage	**2.5V**
Charging method	**Constant current followed by constant voltage**
Charge temperature range	**0°C to 50°C**
End (of charge) Voltage	**4.2V ±0.05V**

Consult AGM for operation outside the above parameters

Safety testing

The ICR34600 has undergone extensive safety testing in hostile environments to ensure it meets the stringent requirements of the draft IEC specification (IEC 61960 Pt1).

Continuous Charge	✔
Shock	✔
Vibration	✔
High Temperature Storage	✔
Thermal Shock	✔
Altitude Simulation	✔

Abuse testing

AGM products have been tested in accordance with the severe abuse conditions, laid out in the draft IEC specification (IEC 61960 Pt1), to ensure rigorous standards of safety and security for the user.

Short-circuit	✔
Forced discharge	✔
Overcharge*	✔
Internal Short-circuit	✔
High rate charge	✔
Free fall	✔
Thermal exposure	✔

**Tested with integral protection*

At our state-of-the-art factory in Thurso we design, develop and manufacture specialist lithium-ion cells. Our expertise in this field ensures that our products provide the ultimate in performance, reliability and operational efficiency in the harshest of operating environments.

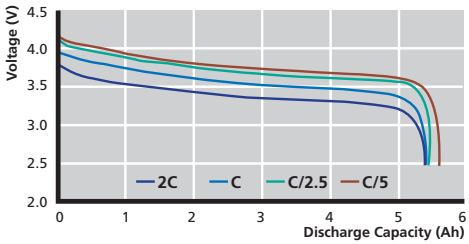
Call +44 (0)1847 808060 for further information on the complete range of products and services from AGM Batteries Ltd

ICR34600 Li-ion Cells
Cell performance characteristics

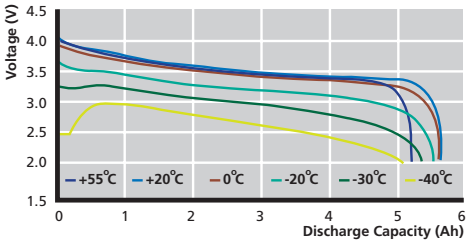
Product benefits:

- **High energy density** *up to three times that of NiCd cells*
- **High running voltage** *replaces three NiCd or NiMH cells*
- **Excellent low temperature performance** *will operate down to -40°C*
- **Simple charging methods** *combination of constant current and constant voltage*
- **No memory effect** *unlike NiCd cells no need for conditioning cycles after shallow discharge*
- **Proven cycle life** *extended cycle life throughout operational environment*
- **Environmentally friendly** *contains no cadmium or lead*

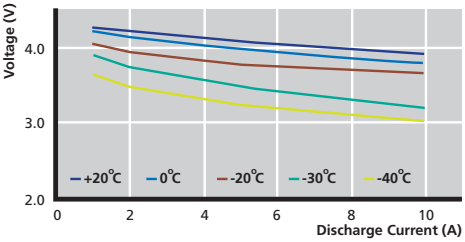
Discharge capacity vs current drain *Discharge at + 20°C*



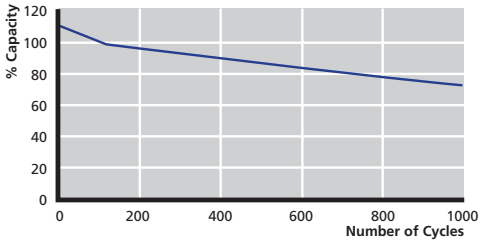
Discharge capacity vs temperature *Discharge at C/2.5 rate*



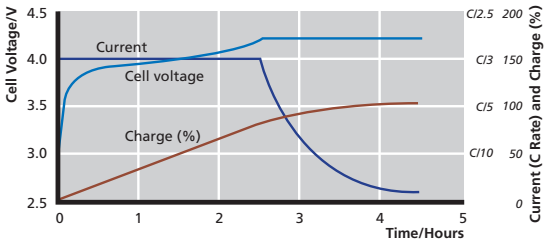
Voltage vs current and temperature *Average discharge voltage*



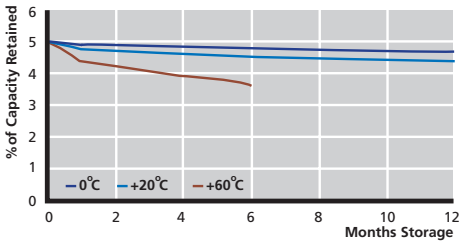
Cycle life* *Discharge at C/2.5 rate at +20°C charge at C/3 rate*



Charging method *CCCV Charging*



Charge retention *Discharge at C/2.5 rate*



**Cycle life will vary with charge rate, discharge rate, depth of discharge and operating temperature, consult AGM for details.*

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Li-ion

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THE INNOVATION BUSINESS

AGM Batteries Limited is an AEA Technology plc joint venture company

AGM Batteries Ltd