

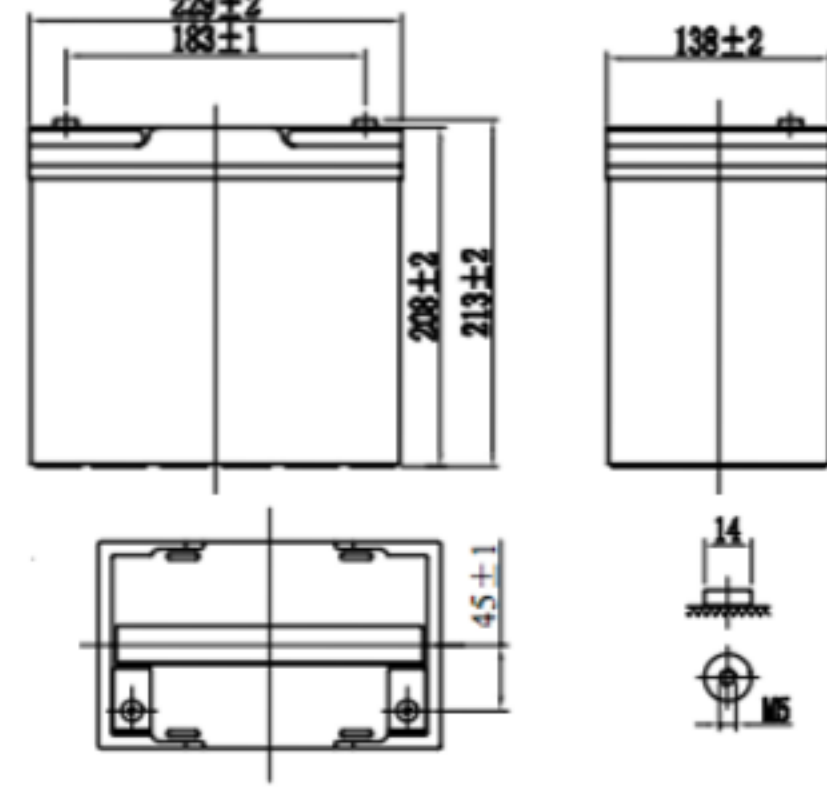


**ORIGIN BATTERY**  
Power from the Start

**OR-12550Z GENERAL CHARACTERISTICS**

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.

- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.



**DIMENSIONS AND WEIGHT**

	SI	Imperial
Length	229 mm	9.01 inch
Width	138 mm	5.43 inch
Height	208 mm	8.18 inch
Total Height	213 mm	8.38 inch
Approx. Weight	18.0 mm	39.7 inch

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

**PERFORMANCE CHARACTERISTICS**

**BATTERY CONSTRUCTION**

Component Raw Material — Positive plate Lead Dioxide —  
Negative plate Lead — Container ABS — Cover ABS — Safety  
valve Rubber — Terminal Copper — Separator Fiberglass —  
Electrolyte Sulfuric acid

- Nominal Voltage --- 12V
- Number of cell --- 6
- Design Life --- 10 years
- Nominal Capacity 77oF(25oC)
- 10 hour rate (5.13A, 10.8V) 51.3Ah
- 5 hour rate (9.13A, 10.5V) 45.65Ah
- 1 hour rate (34.6A, 9.6V) 34.6Ah
- Internal Resistance
- Fully Charged battery 77oF(25oC) 7.2mOhms
- Self-Discharge
- 3% of capacity declined per month at 20oC(average)

- Operating Temperature Range
- Discharge --- -20~60oC
- Charge --- -10~60oC
- Storage --- -20~60oC
- Max. Discharge Current 77oF(25oC) --- 550A(5s)
- Short Circuit Current --- 1400A
- Charge Methods: Constant Voltage Charge --- 77oF(25oC)
- Cycle use 2.40-2.45VPC
- Maximum charging current --- 16.5A
- Temperature compensation --- -30mV/oC
- Standby use 2.20-2.30VPC
- Temperature compensation -20mV/oC

UPC Code: 024606140311



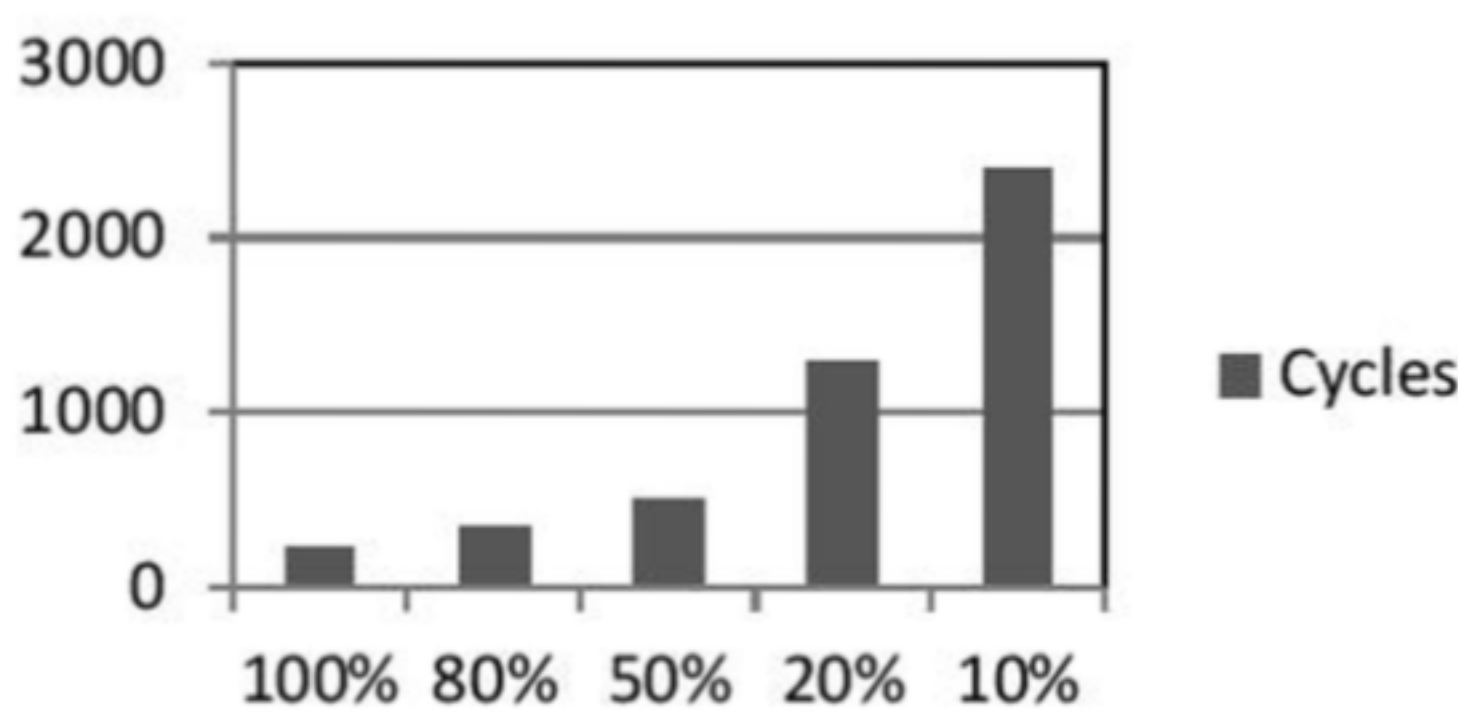
High-Tech Battery Solutions Inc, 2065 Midway Dr. Twinsburg, OH 44087, United States  
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Website: <http://www.techbatterysolutions.com>



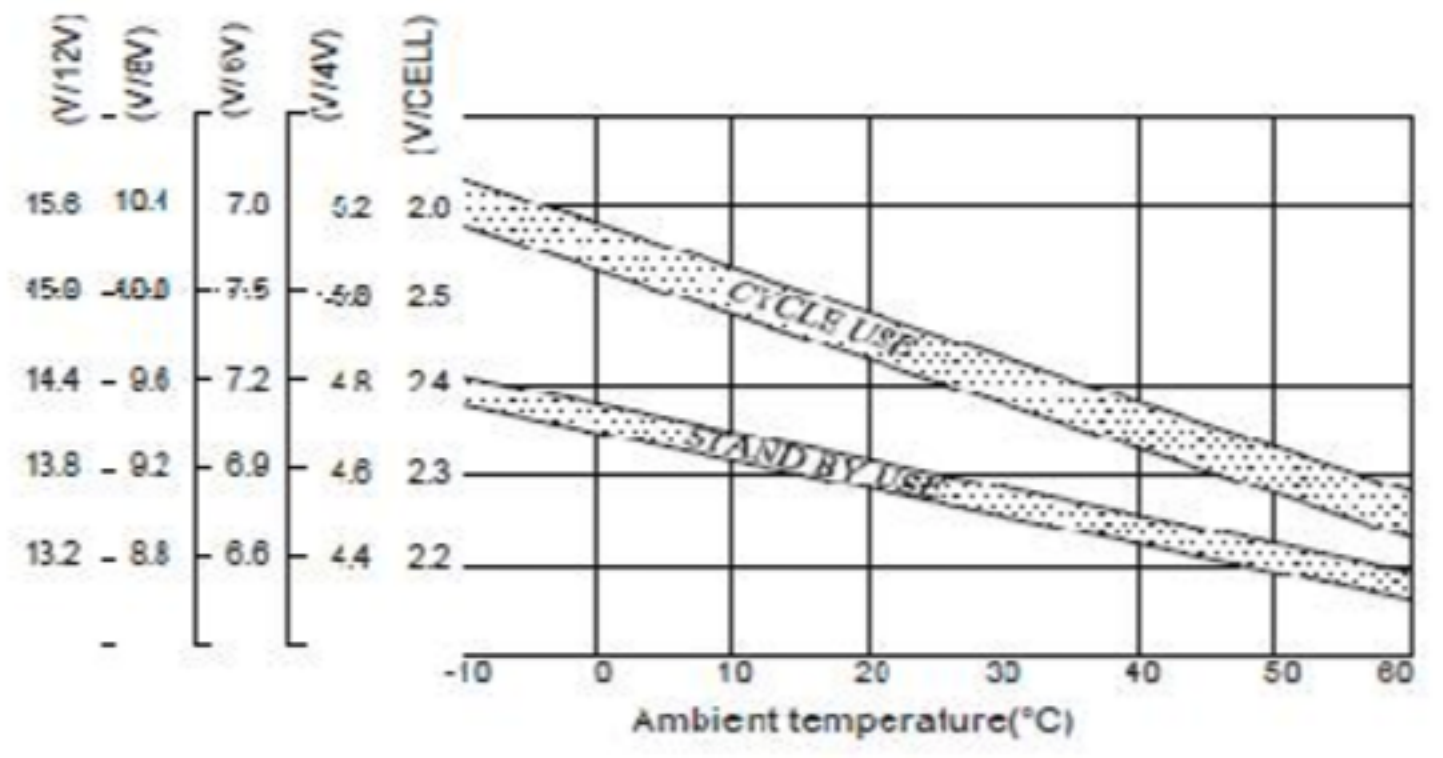
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**OR-1250Z BATTERY SPECIFICATIONS**

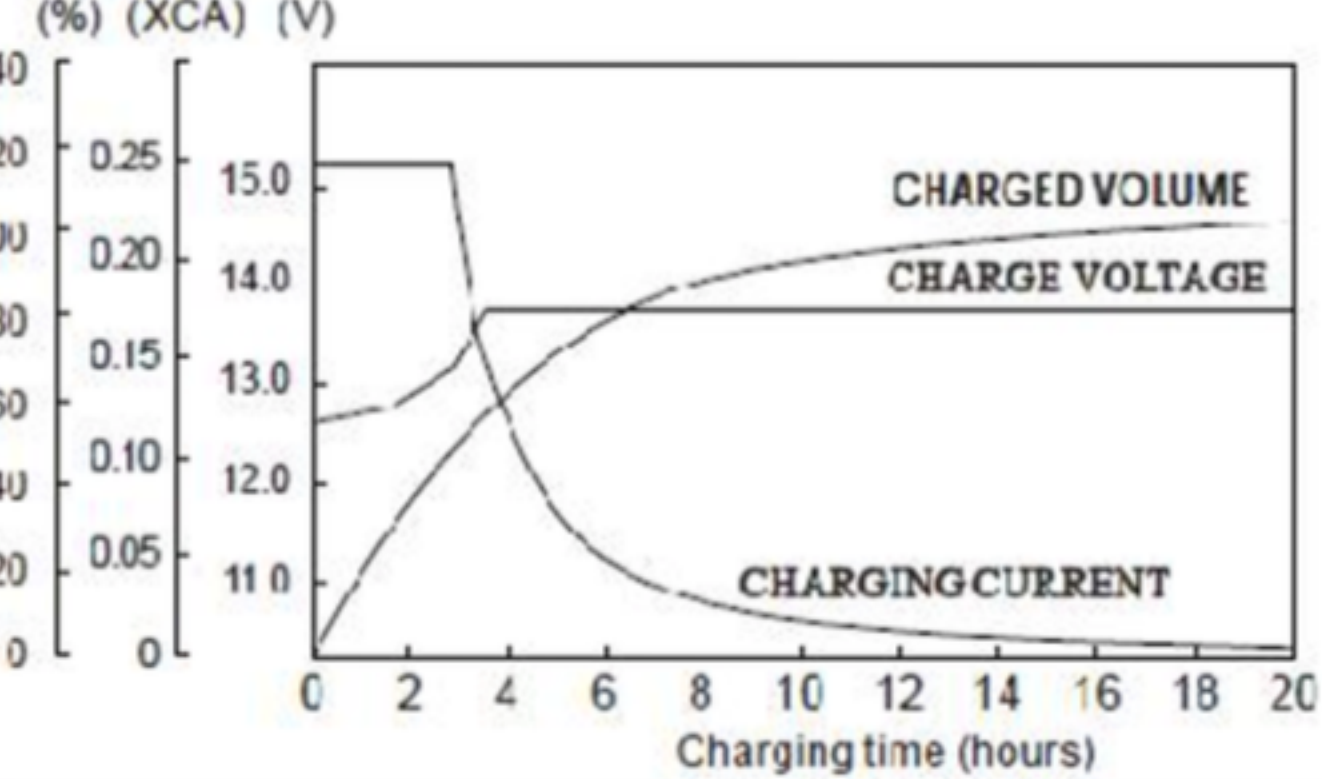
**Cycle Life SCP Series**



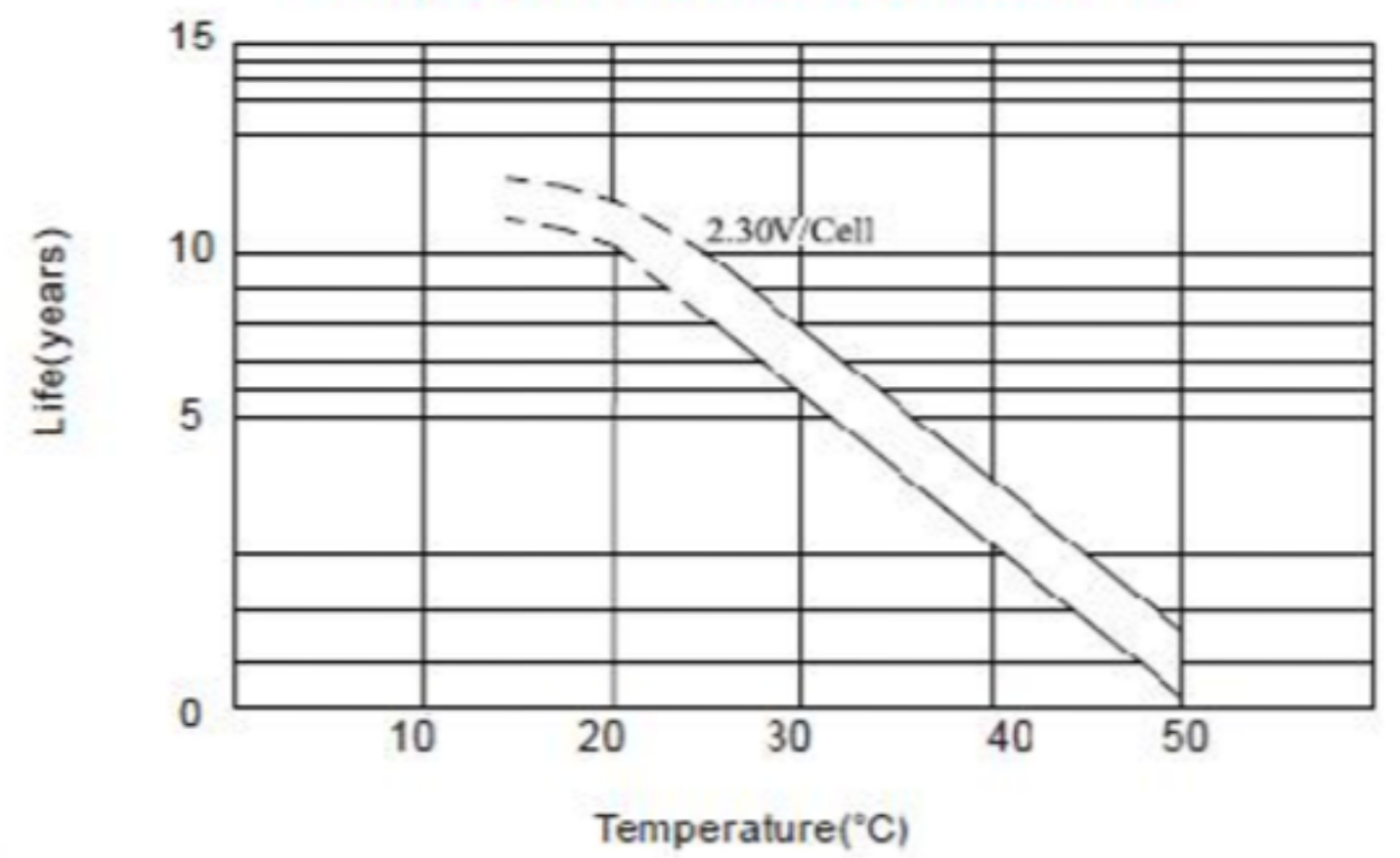
**Relationship between charging voltage and temperature**



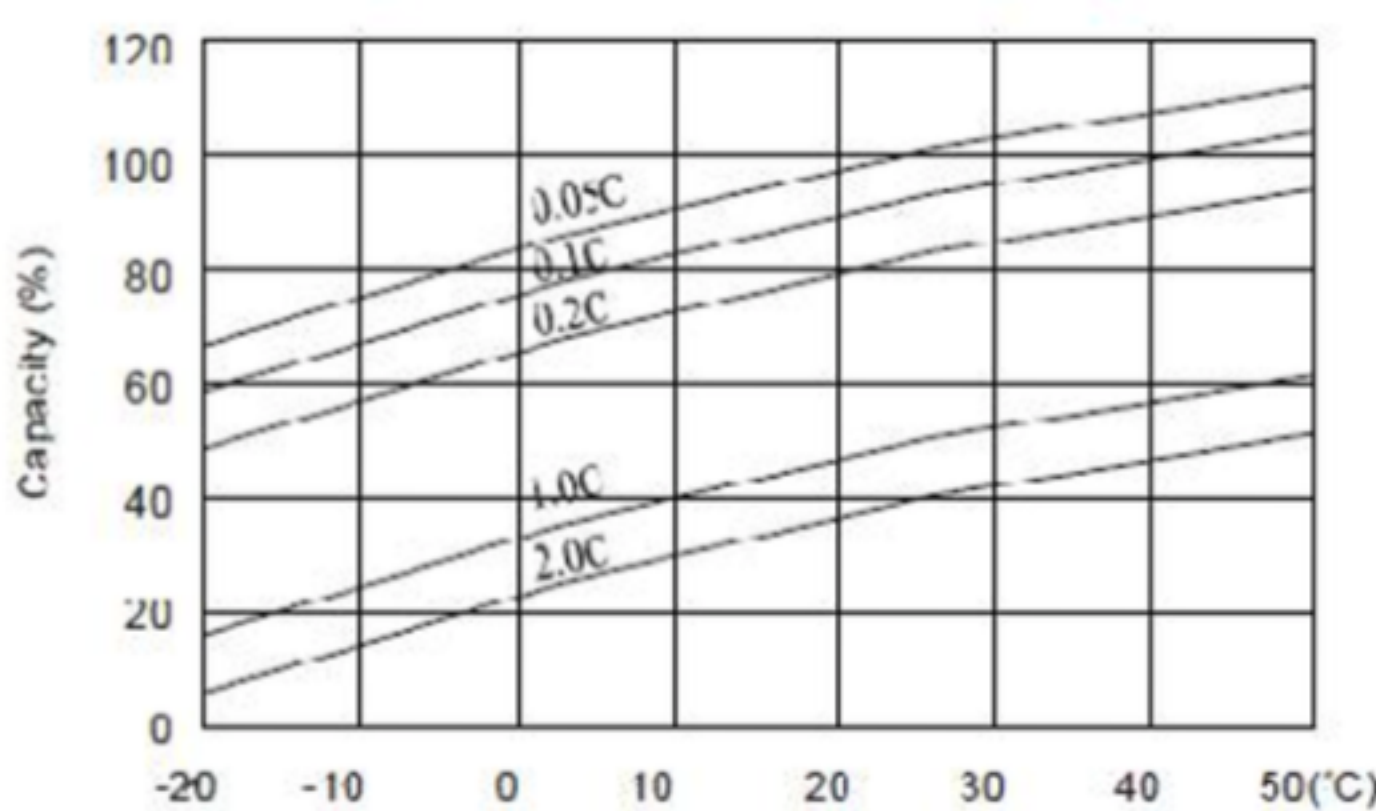
**Constant voltage charging characteristic (0.25CA, 25°C)**



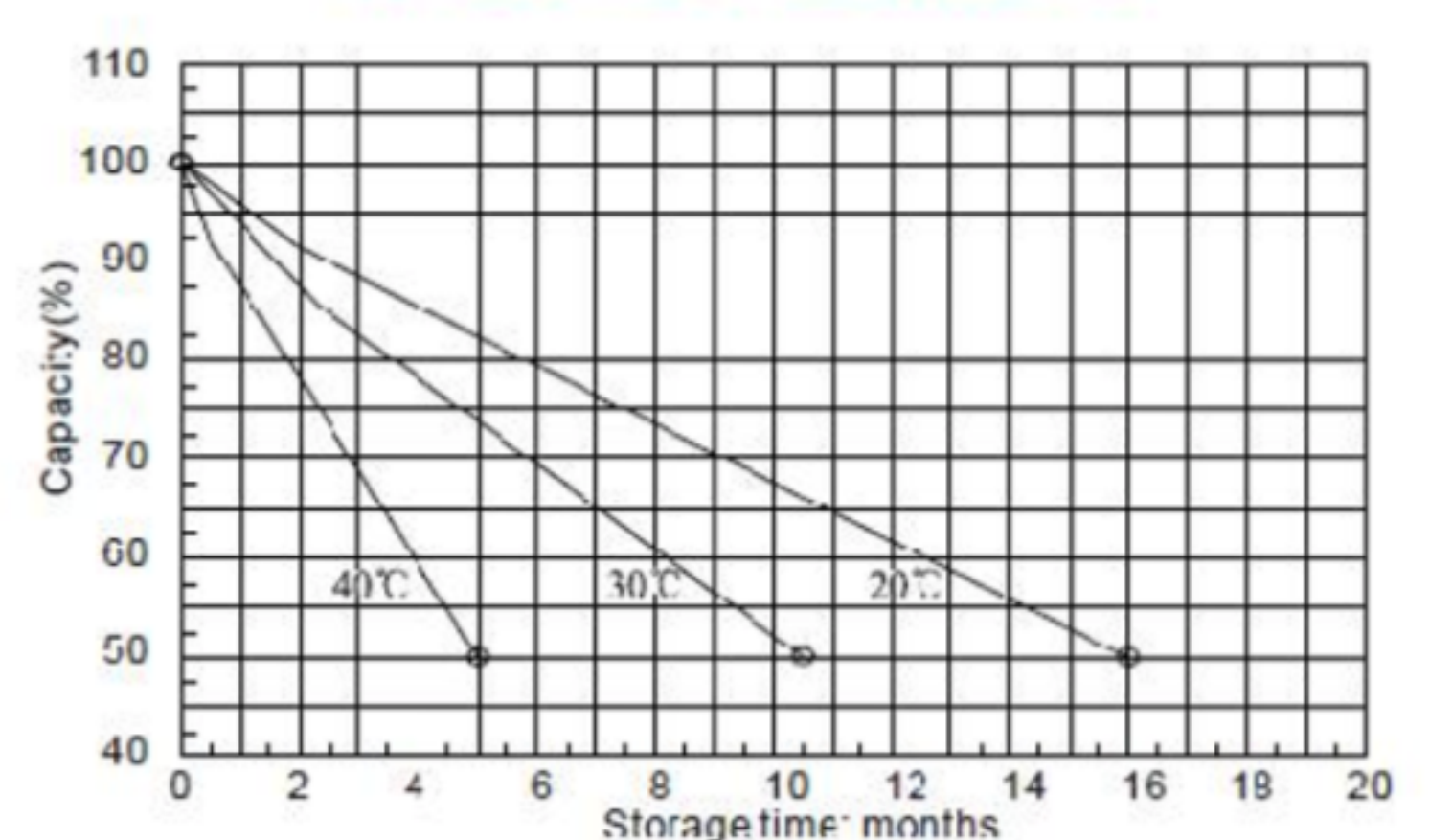
**Temperature effects on float life**



**Temperature effects on capacity**



**Self-discharge characteristic**



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