

12 Ah Battery: VF5451-00

USCG Type Approved
161.002/A53/0



Standard Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power and volume ratio yielding unrivaled energy density
- Rugged plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A., and C.A.B. certified
- U.L. recognized under file number MH 20845

Technical Specifications

Nominal Voltage: 12 Volts (6 cells in series)

Nominal Capacity

20 Hour Rate (600mA to 10.50 Volts): 12.0 A.H

10 Hour Rate (1.1A to 10.50 Volts): 11.0 A.H

5 Hour Rate (2.1A to 10.20 Volts): 10.5 A.H

1 Hour Rate (7.25A to 09.00 Volts): 7.25 A.H

Approximate Weight: 8.5lbs

Energy Density (20 hour rate): 1.69 Watt-hours/cubic inch

Specific Energy (20 hour rate): 16.9 Watt-hours/pound

Internal Resistance (fully charged battery): 16 milliohms (approx)

Maximum discharge current (< 7 Min): 36 amperes

Maximum short duration discharge current (< 10 Sec): 120 amperes

Terminal Configurations: "F2": Quick disconnect tabs, 0.250" x 0.032" -
Mate with AMP, INC FASTON "250" series

Shelf life - % of nominal capacity at 68°F:

1 Month: 97%

3 Months: 91%

6 Months: 83%

Operating Temperature range

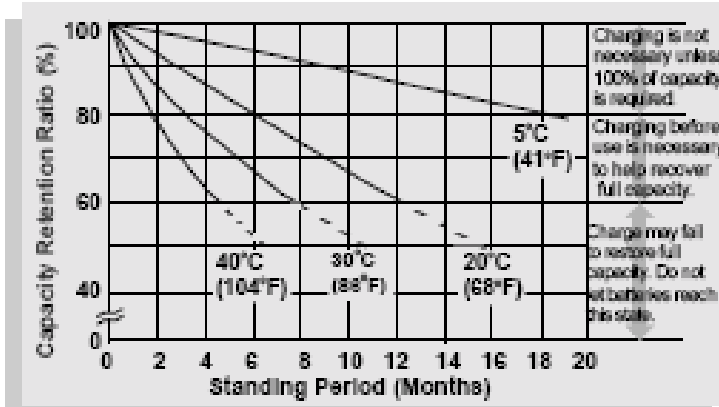
Charge: -4°F to 122°F

Discharge: -4°F to 140°F

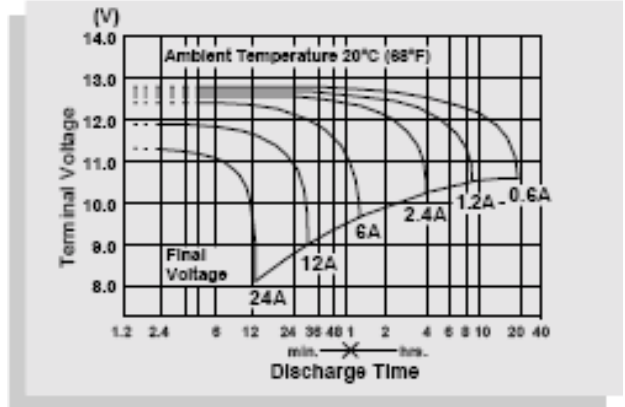
Case: ABS Plastic

Technical Data

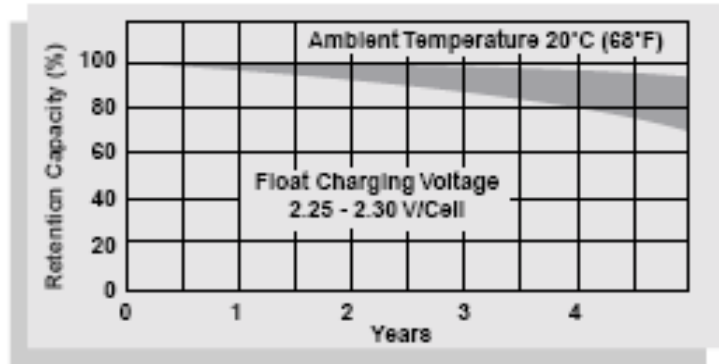
Shelf Life and Storage



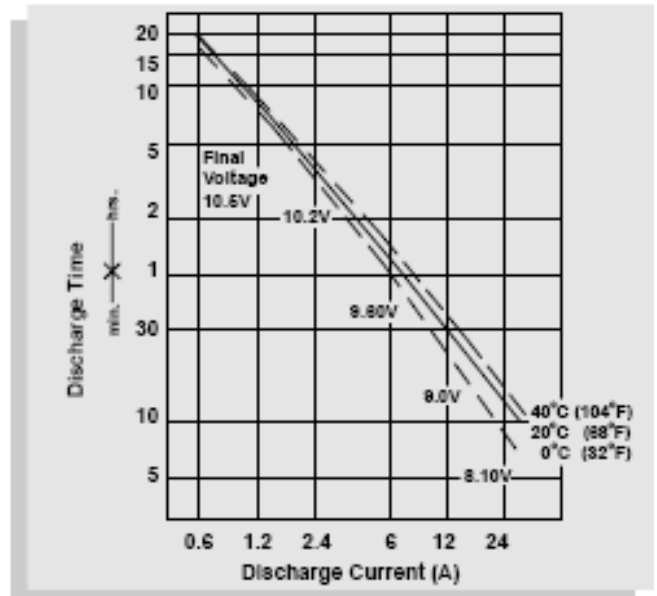
Discharge Characteristics



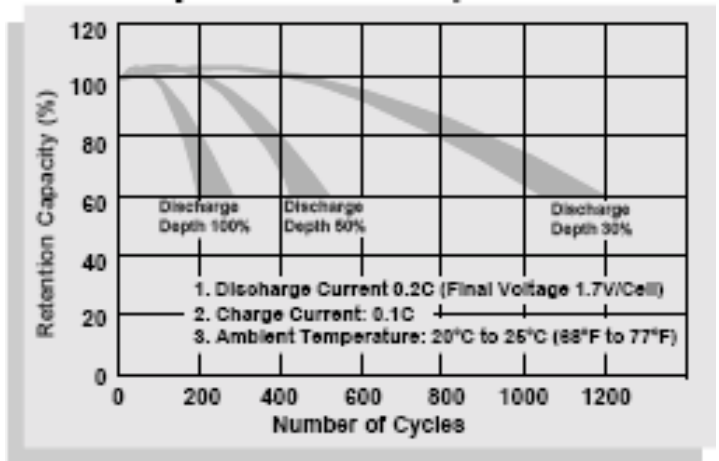
Life Characteristics in Stand-by Use



Discharge Time vs. Discharge Current



Life Characteristics in Cyclic Use



Charging

Cycle Applications: Limit initial current to 3.6A. Charge until battery voltage (under charge) reaches 14.40 to 14.70 volts at 68°F (20°C). Hold at 14.40 to 14.70 volts until current drops to approximately 120mA. Battery is fully charged under these conditions, and charger should either be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.50 to 13.80 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

NOTE: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged after 6-9 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.