



Rechargeable Sealed Lead-Acid Battery

PS-12180

12 Volt 18.0 Amp. Hrs.



Features:

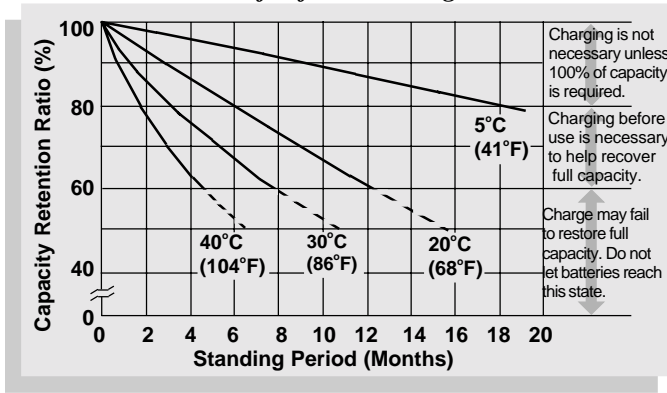
- Absorbent Glass Mat (AGM) technology for superior performance.
- Valve regulated, spill proof construction allows safe operation in any position.
- Power/volume ratio yielding unrivaled energy density.
- Rugged plastic case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B.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



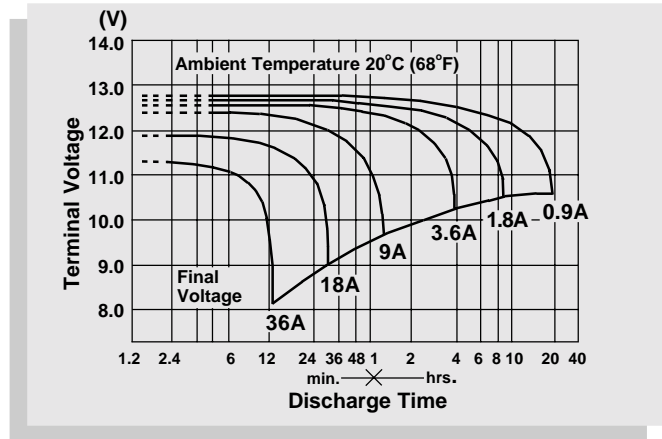
PERFORMANCE SPECIFICATIONS

Nominal Voltage	12 volts (6 cells in series)
Nominal Capacity	
20 hour rate (900mA to 10.50 volts)	18.0 A.H.
10 hour rate (1.7A to 10.50 volts)	17.0 A.H.
5 hour rate (3.2A to 10.50 volts)	16.0 A.H.
1 hour rate (11.1A to 09.00 volts)	11.1 A.H.
15 min rate (34.3A to 09.00 volts)	8.6 A.H.
Approximate Weight	12.6 pounds (5.7 kg)
Energy Density (20 hour rate)	1.54 Watt-hours/cubic inch (94.0 Watt-hours/l)
Specific Energy (20 hour rate)	16.5 Watt-hours/pound (36.6 Watt-hours/kg)
Internal Resistance (Fully Charged Battery)	12 milliohms (approximately)
Maximum Discharge Current (≤ 7 Min.)	54 amperes
Maximum Short-Duration Discharge Current (≤ 10 Sec.)	180 amperes
Terminal configurations	PS-12180 NB: Tin plated brass post with 5mm nut & bolt connectors PS-12180 F: Quick disconnect AMP, INC. Faston tabs, 0.250" x 0.032"
Shelf Life — % of nominal capacity at 68° F (20° C)	
1 Month.....	97%
3 Months.....	91%
6 Months.....	83%
Operating Temperature Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
Case	ABS Plastic

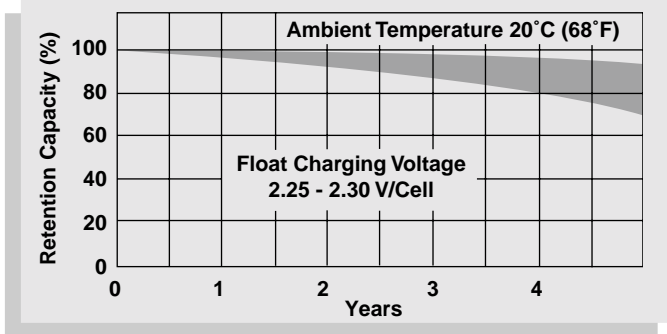
Shelf Life and Storage



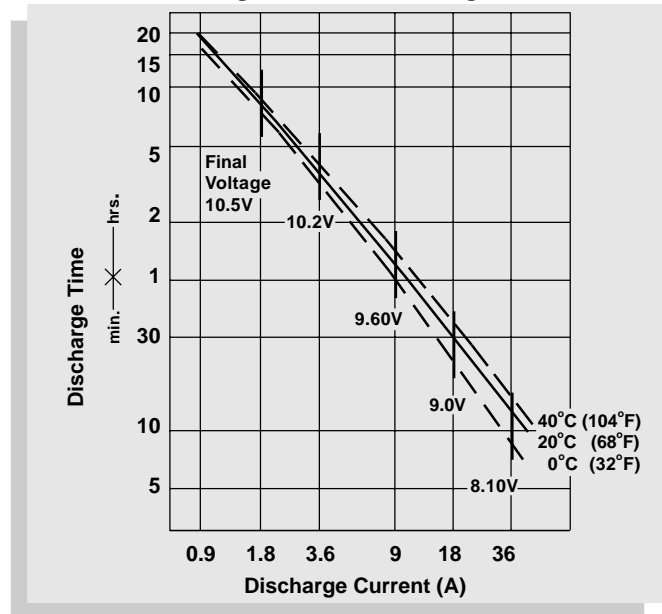
Discharge Characteristics



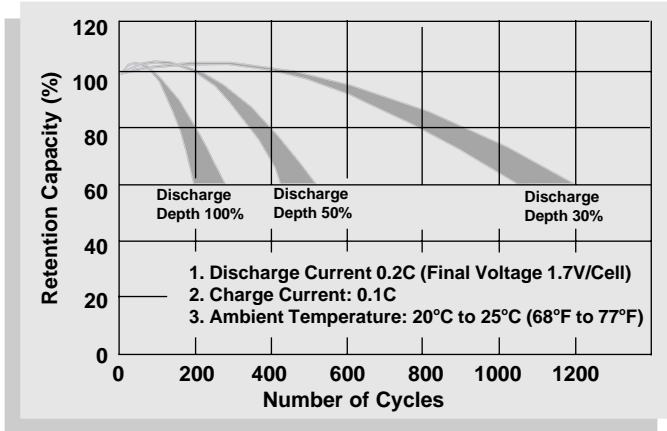
Life Characteristics in Stand-By Use



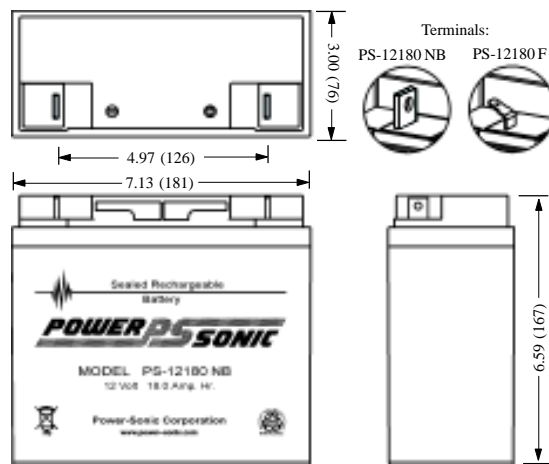
Discharge Time vs. Discharge Current



Life Characteristics in Cyclic Use



Physical Dimensions: in. (mm)



Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

CHARGING

Cycle Applications: Limit initial current to 5.4A. 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 180mA. 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.



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