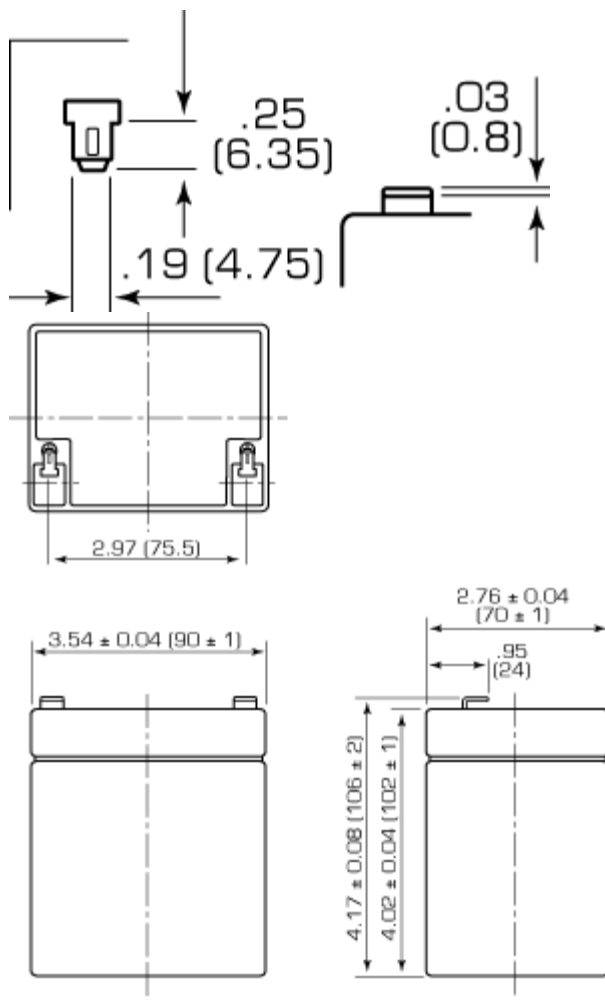


PE12V4.5



Dimensions



Rechargeable Sealed Lead Acid Battery

Specifications

1	Nominal Voltage	12V
2	Nominal Capacity	0.05C (0.225A to 10.50V) 4.5 AHr 0.1C (0.45A to 10.50V) 4.05 AHr 0.2C (0.90A to 10.20V) 3.51 AHr 1C (4.50A to 9.00V) 2.34 AHr
3	Weight (Approx.)	3.86 lbs. (1.75 kg)
4	Internal Resistance of fully charged battery	40 milliohms
5	Energy Density (0.05C)	1.37 Watt-hours/cubic inch (84.0 Watt-hours/l)
6	Specific Energy (0.05C)	14.0 Watt-hours/pound (30.9 Watt-hours/l)
7	Maximum Discharge Current with standard terminals	27 amperes
8	Maximum Short Duration Discharge Current (less than 5 sec.)	67.5 amperes
9	Vibration Test	(2000 cycles/minute, 0.10 inch excursion, 2 hours) No loss in capacity or performance
10	Charge Retention (shelf life)	% of nominal capacity at 77°F (25°C) 1 month 97% 3 months 91% 6 months 85%
11	Operating Temperature Range	Charge 32°F (0°C) to 104°F (40°C) Discharge —4°F (—20°C) to 122°F (50°C) Storage —4°F (—20°C) to 104°F (40°C)
12	Case Material	Synthetic resin (ABS)
13	Standard Terminal	F1

CHARGING METHODS

CYCLIC USE:

Maximum Initial Charge Current: 1.125A

Charging Voltage: 14.4V-14.7V

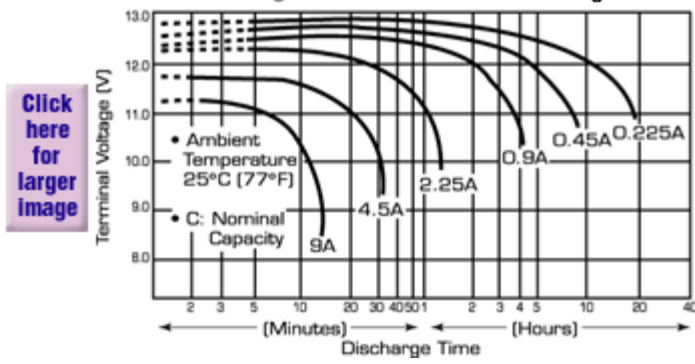
Charge should be switched to float mode or disconnected when current drops to 45mA.

STANDBY USE:

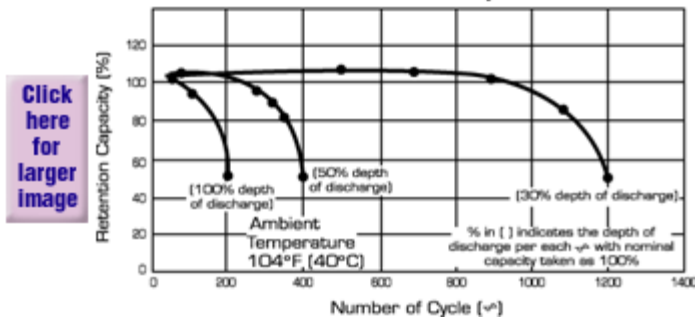
Maximum Initial Charge Current: 1.125A

Charge Voltage: 13.5V-13.8V

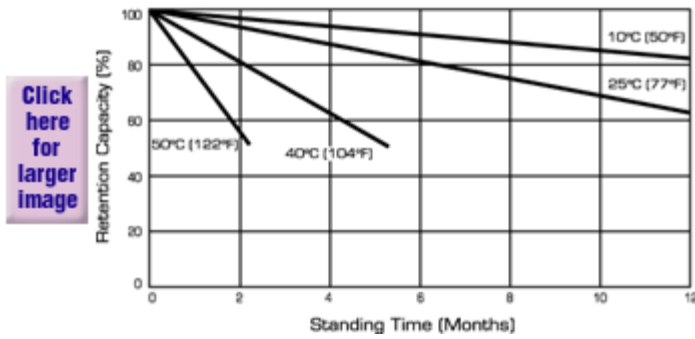
Discharge Time vs. Terminal Voltage



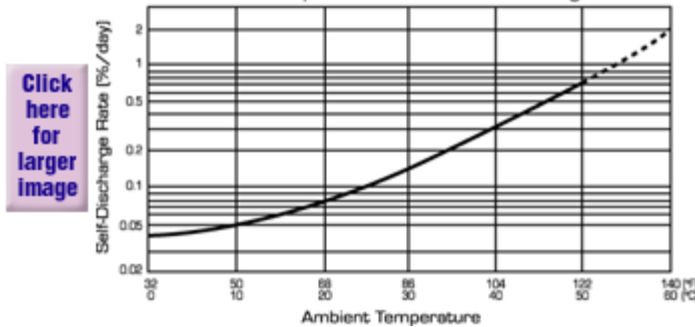
Life Characteristics of Cyclic Use



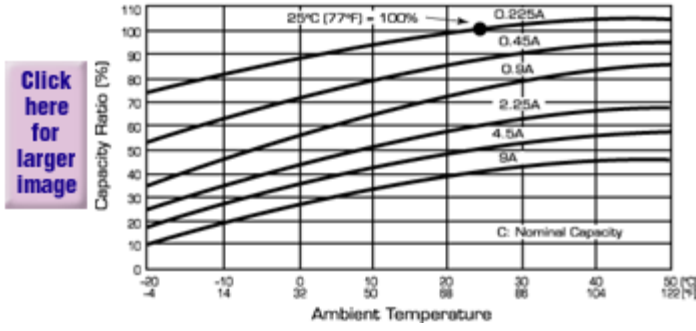
Shelf Life Characteristics



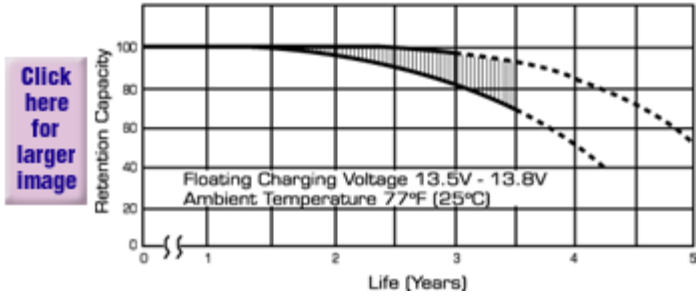
Effect of Temperature on Self-Discharge Rate



Effect on Temperature on Capacity



Life Characteristics of Standby Use



Discharge Time vs Discharge Current

