



## NP2-12

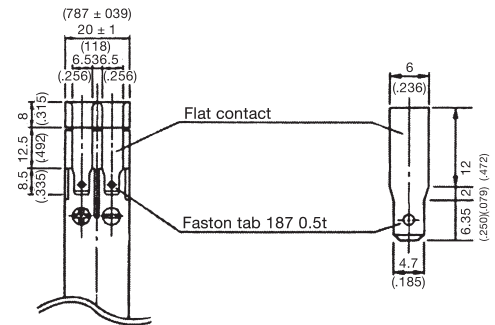
Sealed Rechargeable  
Lead-Acid Battery

12V, 2Ah

### Specifications

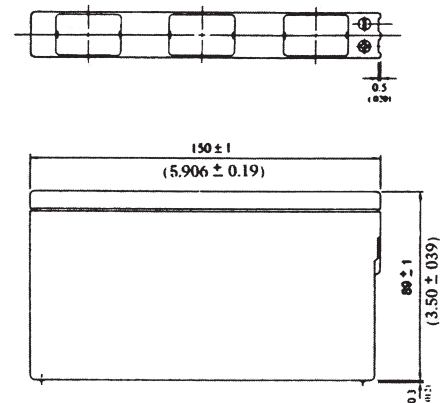
- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
  - 20 hr. rate of .100A to 10.50V 2.0Ah
  - 10 hr. rate of .186A to 10.50V 1.86Ah
  - 5 hr. rate of .340A to 10.20V 1.7Ah
  - 1 hr. rate of 1.20A to 9.60V 1.2Ah
- **WEIGHT (approx.):** 1.54 pounds (0.70 kgs.)
- **ENERGY DENSITY (20 hr. rate):** 1.56 WH/cubic inch (95 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):** 15.6 WH/pound (34 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 80 milliohms (approx.)
- **MAXIMUM DISCHARGE CURRENT WITH STANDARD TERMINALS:** 40 amperes
- **MAXIMUM SHORT-DURATION DISCHARGE CURRENT:** 80 amperes
- **OPERATING TEMPERATURE RANGE:**
  - CHARGE 5°F to 122°F (-15°C to 50°C)
  - DISCHARGE -4°F to 140°F (-20°C to 60°C)
- **CHARGE RETENTION (shelf life) at 68°F (20°C):**
  - 1 month 97%
  - 3 months 91%
  - 6 months 85%
- **LIFE EXPECTANCY:**
  - STANDBY USE** 3 to 5 years
  - CYCLE USE (approx.):**
    - 100% depth of discharge 250 cycles
    - 50% depth of discharge 550 cycles
    - 30% depth of discharge 1200 cycles
- **SEALED CONSTRUCTION:** Can be operated in any position without leakage.
- **STANDARD TERMINAL:** Quick Disconnect .187 and Flat Contact
- **HOUSING MATERIAL:** ABS Resin

### Terminal



DIMENSIONS: (INCHES)

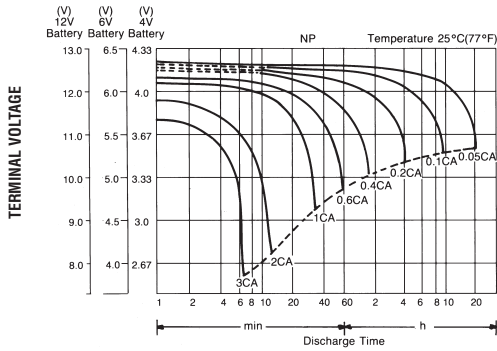
### Dimensions



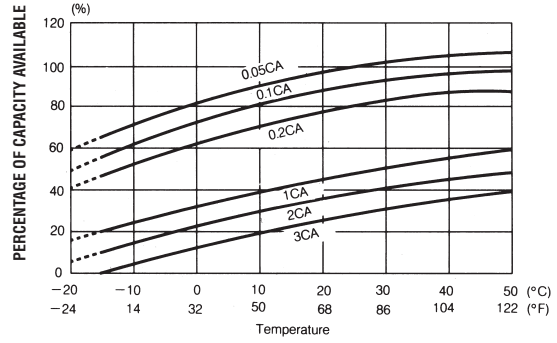
DIMENSIONS: MM (INCHES)

UL listing pending - File No MH16464

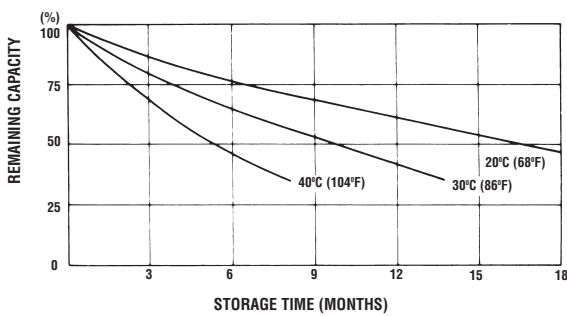
### DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



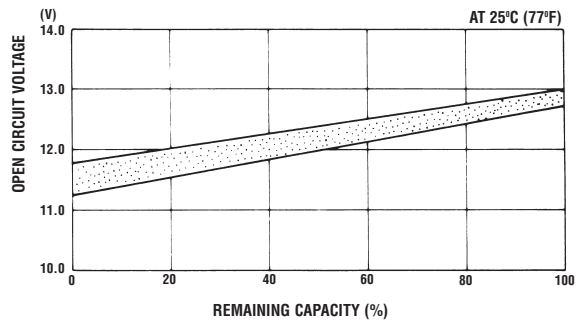
### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



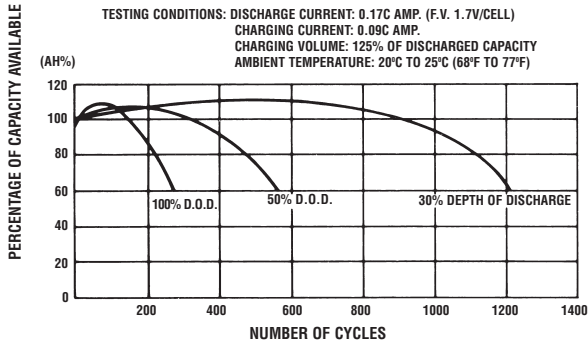
### SELF DISCHARGE CHARACTERISTICS



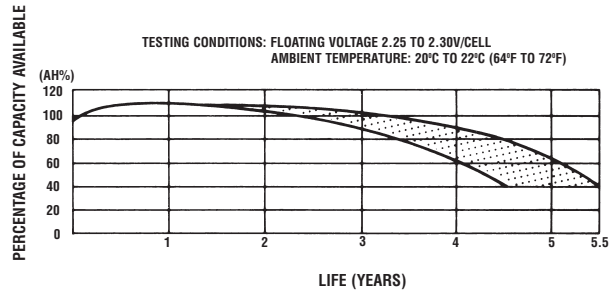
### OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



### CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



### FLOAT SERVICE LIFE



When the battery will be used by current in excess of 3C, consult with EnerSys prior to use.

#### CHARGING METHODS (At 20°C)

**Cycle use:** Maximum charging current 0.5A  
Charging voltage 14.4 to 15.0V  
**Standby use:** Float charging voltage 13.50 to 13.80V

#### CAUTION

- Avoid short circuit
- Do not charge in a sealed container.



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