



## NP5-12 NP5-12FR

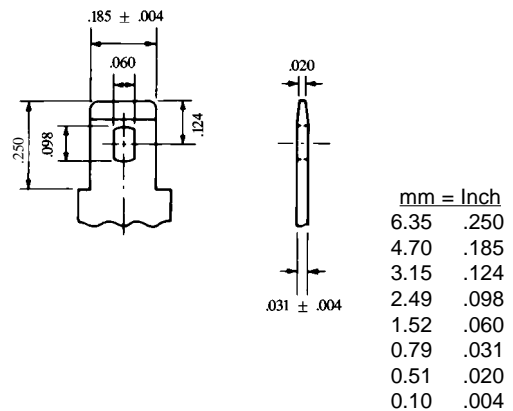
Sealed Rechargeable  
Lead-Acid Battery

### 12V, 5.0Ah

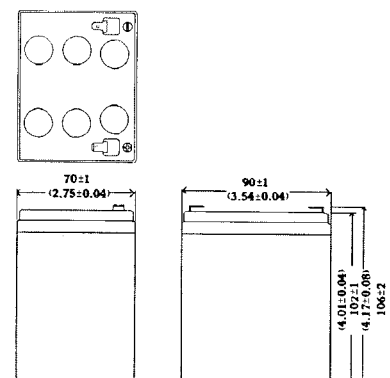
### Specifications

- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
  - 20 hr. rate of 0.25A to 10.5V 5.0Ah
  - 10 hr. rate of 0.46A to 10.5V 4.6Ah
  - 5 hr. rate of 0.85A to 10.2V 4.3Ah
  - 1 hr. rate of 3.00A to 9.60V 3.0Ah
- **WEIGHT (approx.):** 2 kgs. (4.41 lbs)
- **ENERGY DENSITY (20 hr. rate):** 94 WH/litre (1.54 WH/cubic inch)
- **SPECIFIC ENERGY (20 hr. rate):** 30 WH/kg (13.61 WH/lbs)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 20 milliohms (approx.)
- **MAXIMUM DISCHARGE CURRENT WITH STANDARD TERMINALS:** 40 amperes
- **MAXIMUM SHORT-DURATION DISCHARGE CURRENT:** 120 amperes
- **OPERATING TEMPERATURE RANGE:**
  - CHARGE -15°C to 50°C (5°F to 122°F)
  - DISCHARGE -20°C to 60°C (-4°F to 140°F)
- **CHARGE RETENTION (shelf life) at 20°C (68°F):**
  - 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
- **HOUSING MATERIAL:** ABS Resin
- **OPTIONAL:** Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%)

### Terminal



### Dimensions



Dimensions: mm (Inches)

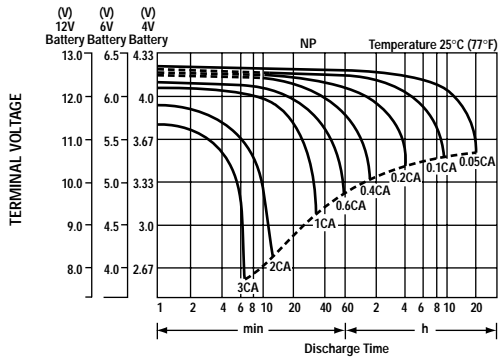


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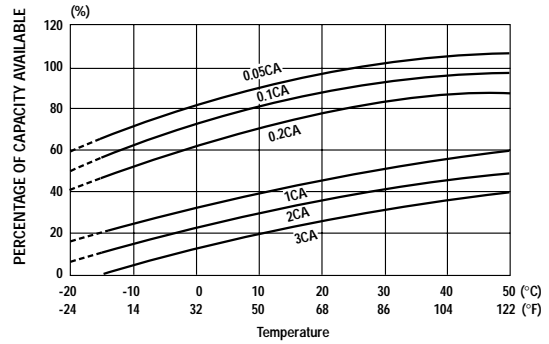
# EnerSys™

Power/Full Solutions™

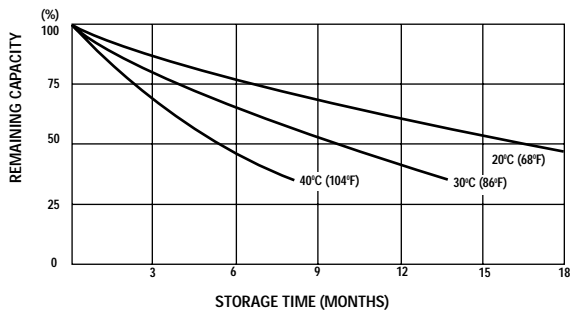
### DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



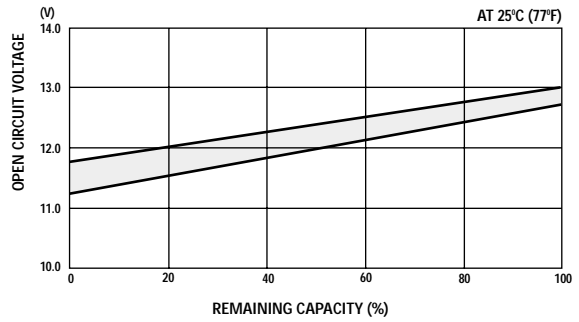
### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



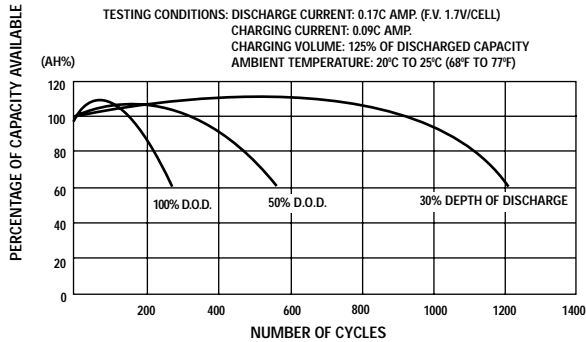
### SELF DISCHARGE CHARACTERISTICS



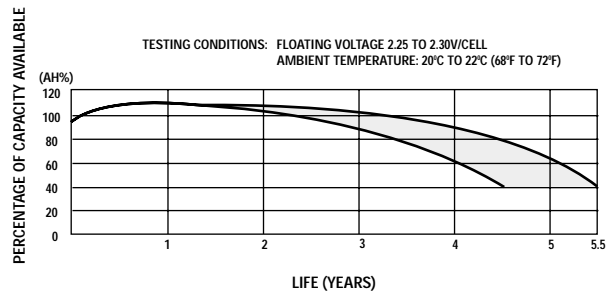
### OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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



### FLOAT SERVICE LIFE



Consult EnerSys before discharging the battery with a current in excess of 3C.

#### CHARGING METHODS (At 20°C)

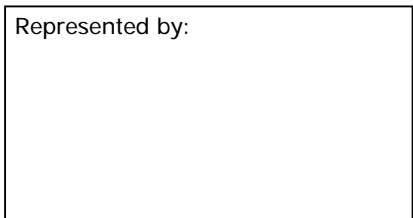
**Cycle use:** Maximum charging current 1.25A  
Charging voltage 14.4 to 15.0V

**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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