



genesis[®]
NP

NP2-12C
NP2-12CFR

Sealed Rechargeable
Lead-Acid Battery

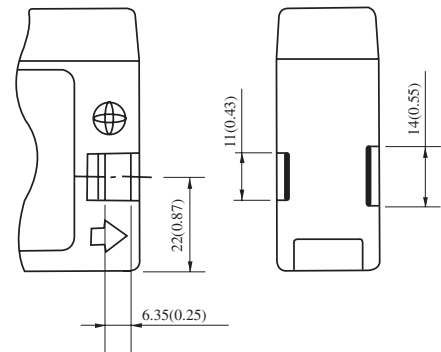
12V, 2Ah

Specifications

- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
 - 20 hr. rate of .10A to 10.50V 2.0Ah
 - 10 hr. rate of .19A to 10.50V 1.9Ah
 - 5 hr. rate of .35A to 10.20V 1.8Ah
 - 1 hr. rate of 1.38A to 9.60V 1.4Ah
- **WEIGHT (approx.):** 1.61 pounds (0.73 kgs.)
- **ENERGY DENSITY (20 hr. rate):** 1.50 WH/cubic inch (92 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):** 14.9 WH/pound (33 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 70 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:** Pressure Contact
- **HOUSING MATERIAL:** ABS Resin
- **OPTIONAL:** Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%)

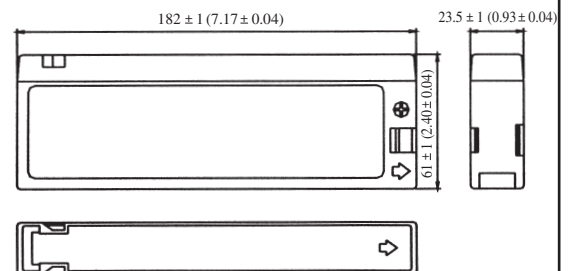
Terminal

TYPE: PC-04



DIMENSIONS: MM (INCHES)

Dimensions



DIMENSIONS: MM (INCHES)

UL listing pending - File No MH16464

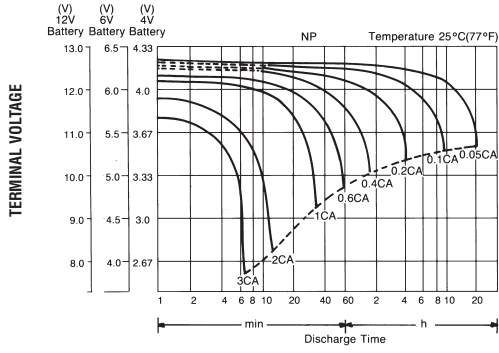
EnerSys[™]

Power/Full Solutions

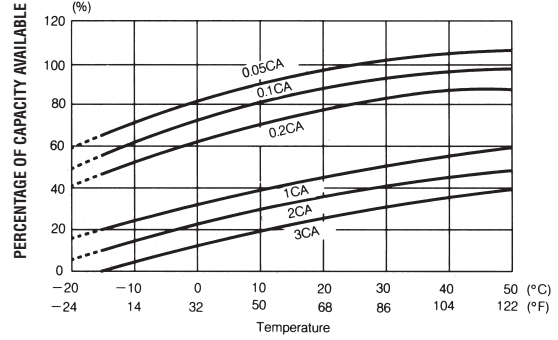


Publication No: EN-NP2-12C-01 • June 2005

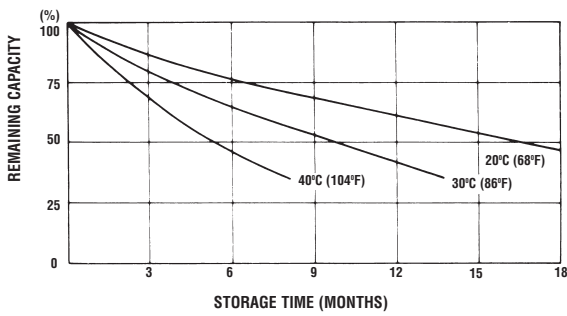
DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



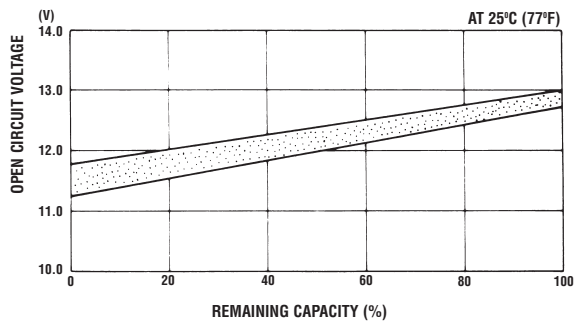
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



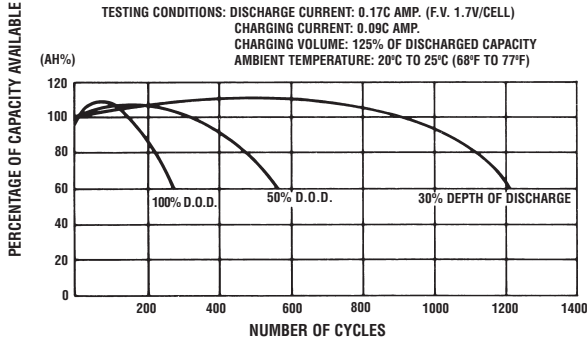
SELF DISCHARGE CHARACTERISTICS



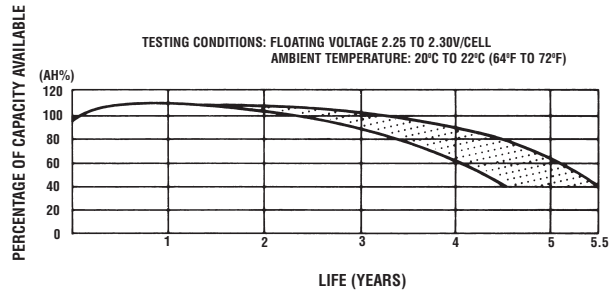
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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 14.7V
Standby use: Float charging voltage 13.50 to 13.80V

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



EnerSys
 P.O. Box 14145
 Reading, PA 19612-4145
 USA
 Tel: +1-610-208-1991
 +1-800-538-3627

EnerSys EMEA
 Brussels, Belgium
 Tel: +32 (0)2 247 94 47
EnerSys Asia
 Guangdong, China
 Tel: +86 755 689 9220

Represented by:

