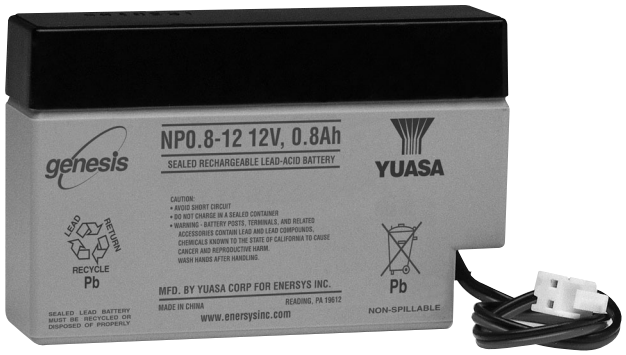


genesis NP

NP0.8-12
NP0.8-12FR

Sealed Rechargeable Lead-Acid Battery

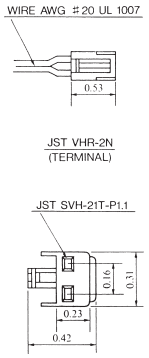
12V, 0.8Ah

Specifications

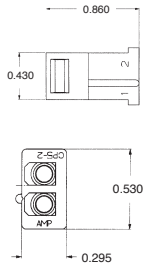
- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
  20 hr. rate of .040A to 10.50V 0.80Ah
  10 hr. rate of .074A to 10.50V 0.74Ah
  5 hr. rate of .136A to 10.20V 0.68Ah
  1 hr. rate of .480A to 9.60V 0.48Ah
- **WEIGHT (approx.):** 0.77 pounds (0.35 kgs.)
- **ENERGY DENSITY (20 hr. rate):** 1.10 WH/cubic inch (65 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):** 12.5 WH/pound (27 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 180 milliohms (approx.)
- **MAXIMUM DISCHARGE CURRENT WITH STANDARD TERMINALS:** 3 amperes
- **MAXIMUM SHORT-DURATION DISCHARGE CURRENT:** 50 amperes
- **OPERATING TEMPERATURE RANGE:**
  CHARGE 5ºF to 122ºF (-15ºC to 50ºC)
  DISCHARGE -4ºF to 140ºF (-20ºC to 60ºC)
- **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:** JST #VHR-2N or optional Tyco. 1-480318-0
- **HOUSING MATERIAL:** ABS Resin
- **OPTIMAL:** Container and cover made from Flame Retardant ABS (UL94-V2/L.O.I.>28%)

Terminal

Standard



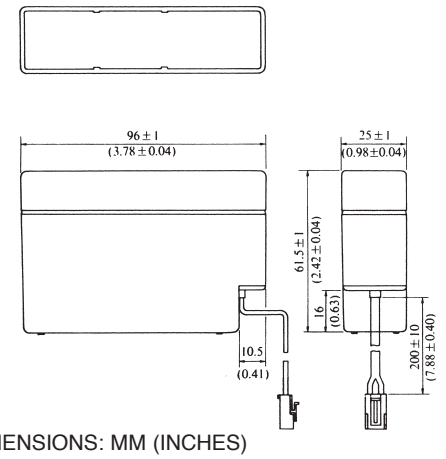
Optional



Tyco. 1-480318-0

DIMENSIONS: (INCHES)

Dimensions



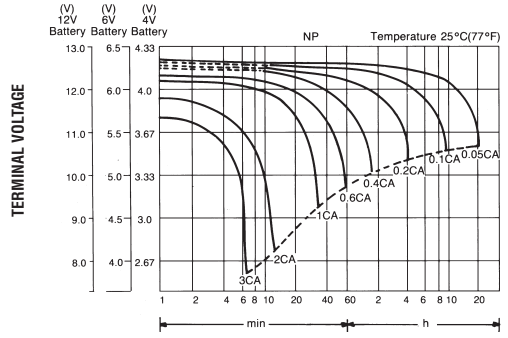
DIMENSIONS: MM (INCHES)

RECOGNIZED BY UL, File No. MH 16464

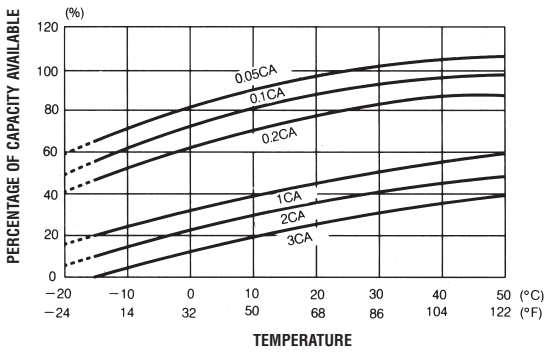
EnerSys™
Power/Full Solutions™

Publication No: US-NP0.8-12-1 • July 2003

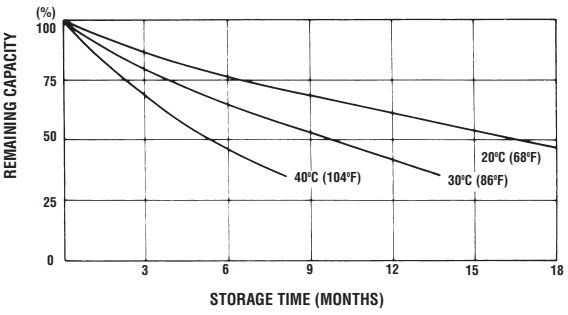
DISCHARGE CHARACTERISTIC CURVES AT 25˚C (77˚F)



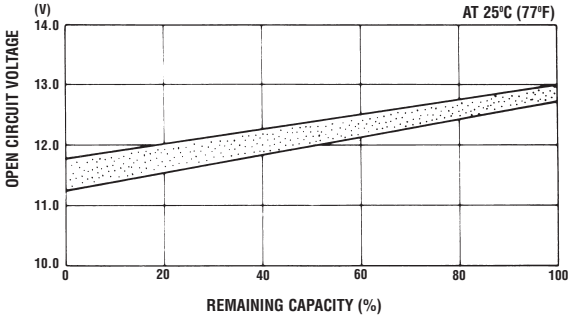
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



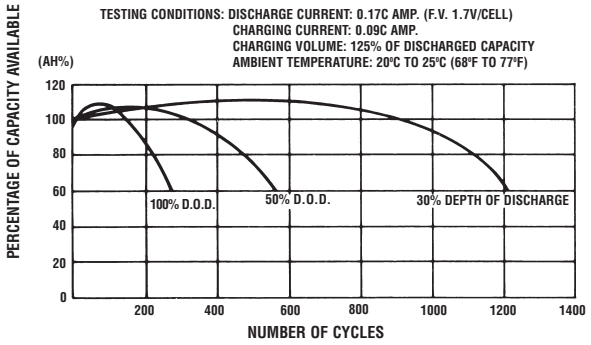
SELF DISCHARGE CHARACTERISTICS



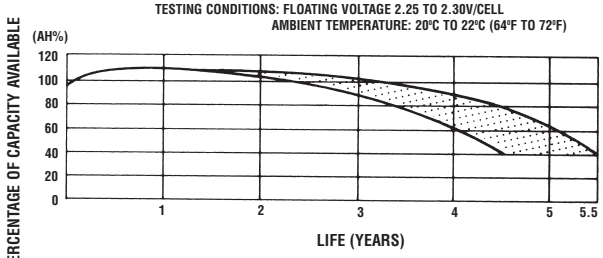
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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 Inc. prior to use.

CHARGING METHODS (At 20˚C)

Cycle use: Maximum charging current 0.2A
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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EnerSys Inc.
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 2689 3639

Represented by:

www.enersysinc.com

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