

Independence™**SEALED RECHARGEABLE LEAD-ACID****B A T T E R I E S**

NP0.8-12

NP0.8-12FR

12V, 0.8Ah

Specifications

NOMINAL VOLTAGE: 12V

NOMINAL CAPACITY:

20 hr. rate of 40 ma to 10.50V 0.80Ah

10 hr. rate of 74 ma to 10.50V 0.74Ah

5 hr. rate of 136 ma to 10.20V 0.68Ah

1 hr. rate of 480 ma 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 CHARGE:

180 milliohms (approx.)

MAXIMUM DISCHARGE CURRENT

WITH STANDARD TERMINALS:

3 amperes

MAXIMUM SHORT-DURATION

DISCHARGE CURRENT:

50 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:

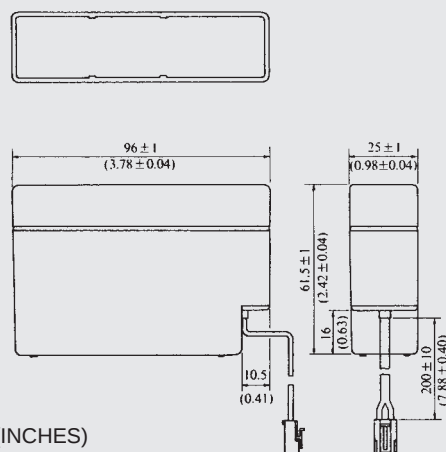
JST #VHR-2N

HOUSING MATERIAL:

ABS Resin

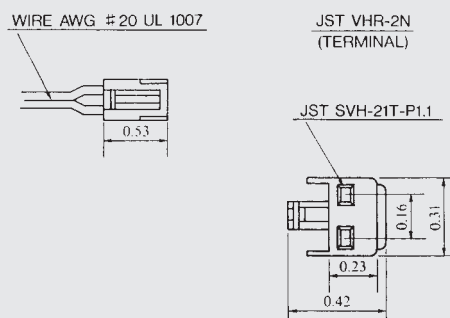
OPTIONAL: Container and cover made from Flame Retardant ABS (UL94-V2/L.O.I.>28%)

DIMENSIONS



DIMENSIONS: MM (INCHES)

TERMINAL

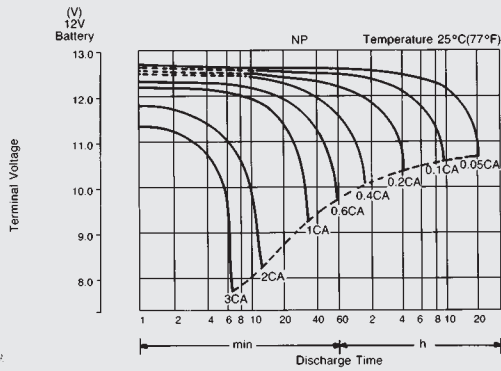


DIMENSIONS: (INCHES)

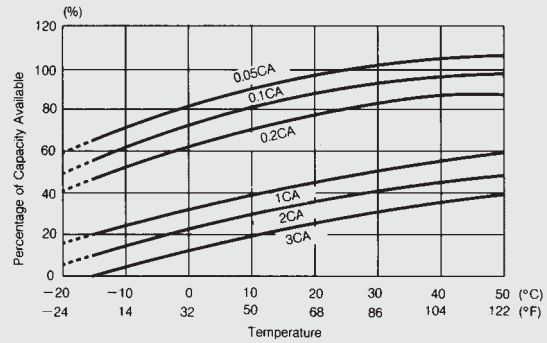


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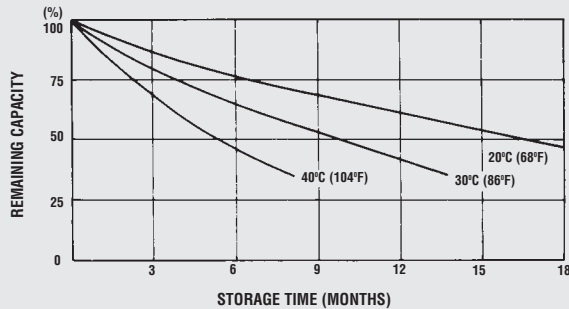
DISCHARGE CHARACTERISTIC CURVES



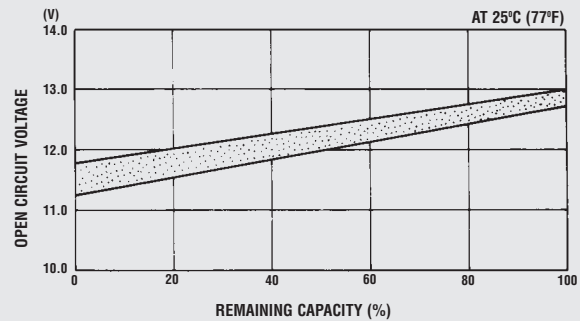
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



SELF DISCHARGE CHARACTERISTIC

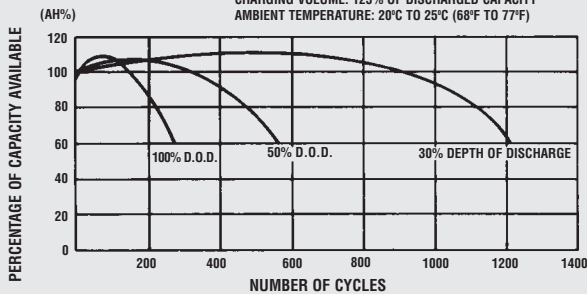


OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



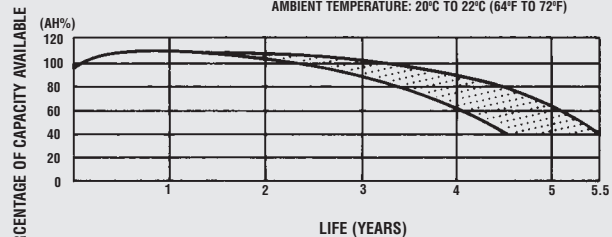
CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE

TESTING CONDITIONS: DISCHARGE CURRENT: 0.17C AMP. (F.V. 1.7V/CELL)
CHARGING CURRENT: 0.09C AMP.
CHARGING VOLUME: 125% OF DISCHARGED CAPACITY
AMBIENT TEMPERATURE: 20°C TO 25°C (68°F TO 77°F)



FLOAT SERVICE LIFE

TESTING CONDITIONS: FLOATING VOLTAGE 2.25 TO 2.30V/CELL
AMBIENT TEMPERATURE: 20°C TO 22°C (64°F TO 72°F)



When the battery will be used by the current in excess of 3C, consult with Yuasa, 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.

Represented by:

When ordering new batteries, also remember to properly recycle your old lead batteries. Federal and state regulations require lead-acid batteries be recycled. Yuasa's nationwide service organization can arrange pickup, transportation to and recycling at any one of our company affiliated smelters. Call 1-800-972-7372 for more information.



YUASA

Power/Full Solutions™

Sales Offices

Eastern Region: 201-964-0118 • 1-800-962-1287

FAX 201-964-0720

Western Region: 562-949-4266 • 1-800-423-4667

FAX 562-949-5527

Corporate Office: P.O. Box 14145, Reading, PA 19612-4145

FAX 610-372-8613

Visit us on the web at: www.yuasastationary.com

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