

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

YUASA
 Power/Full Solutions™


NP38-12B

NP38-12R

12V, 38Ah

Specifications

NOMINAL VOLTAGE: 12V

NOMINAL WATTAGE/CELL:

20 hr. rate of 1.9A to 10.50V 38.0Ah

10 hr. rate of 3.5A to 10.50V 35.0Ah

5 hr. rate of 6.46A to 10.20V 32.3Ah

1 hr. rate of 22.8A to 9.60V 22.8Ah

WEIGHT (approx.): 30 pounds (13.8 kgs.)

ENERGY DENSITY (20 hr. rate):

1.35 WH/cubic inch (82.8 WH/liter)

SPECIFIC ENERGY (20 hr. rate):

14.9 WH/pound (67.8 WH/kg)

INTERNAL RESISTANCE OF CHARGE:

8 milliohms (approx.)

MAXIMUM DISCHARGE CURRENT

WITH STANDARD TERMINALS:

200 amperes

MAXIMUM SHORT-DURATION

DISCHARGE CURRENT:

500 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:

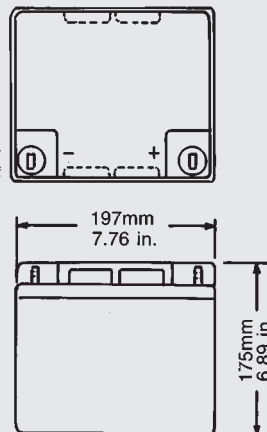
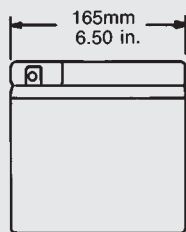
Can be operated in any position without leakage.

STANDARD TERMINAL:

Bolt Terminal or Receptacle Terminal with Bolt

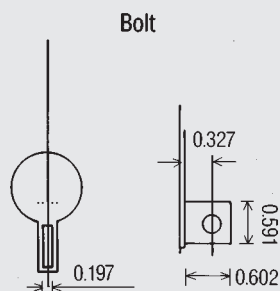
HOUSING MATERIAL: Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%)

DIMENSIONS

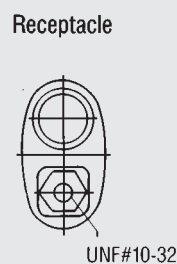


DIMENSIONS: MM (INCHES)

TERMINAL



NP38-12B



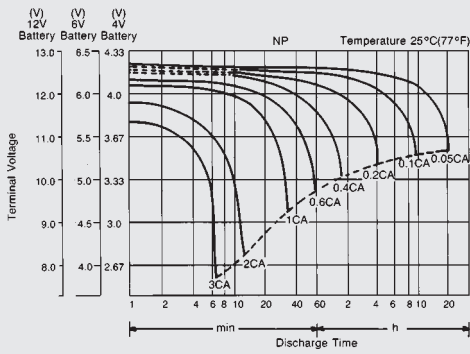
NP38-12R

DIMENSIONS: INCHES

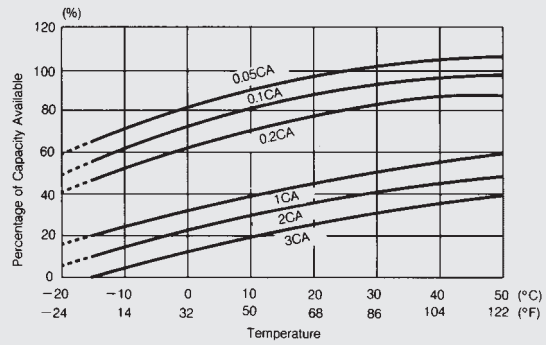


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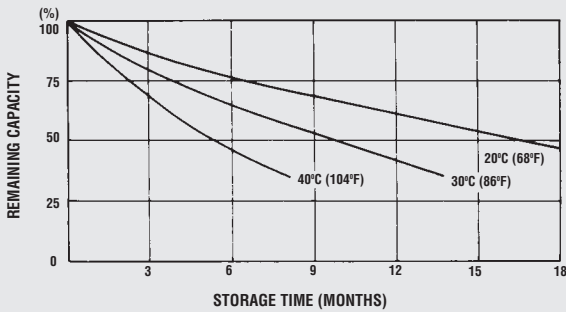
DISCHARGE CHARACTERISTICS CURVES AT 20°C (68°F)



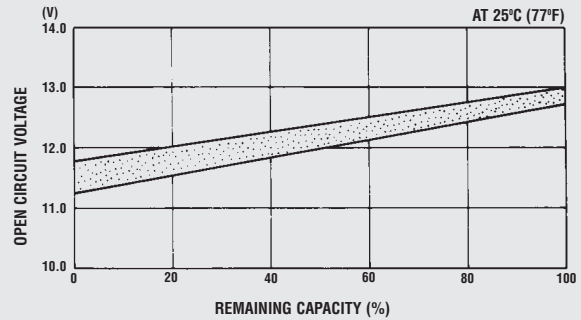
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



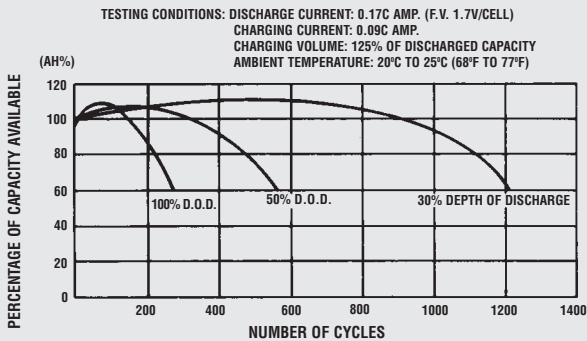
SELF DISCHARGE CHARACTERISTICS



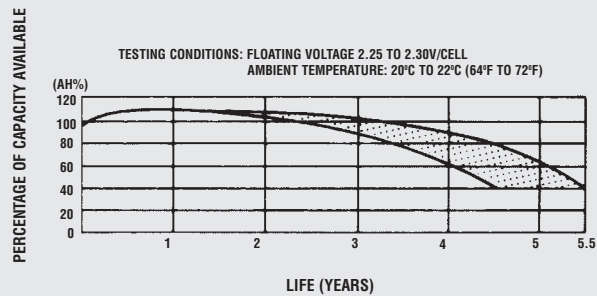
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



FLOAT SERVICE LIFE



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

CHARGING METHODS (At 20°C) Cycle use: Maximum charging current 9.5A
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.

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.



Power/Full Solutions™

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