

SEALED RECHARGEABLE LEAD-ACID

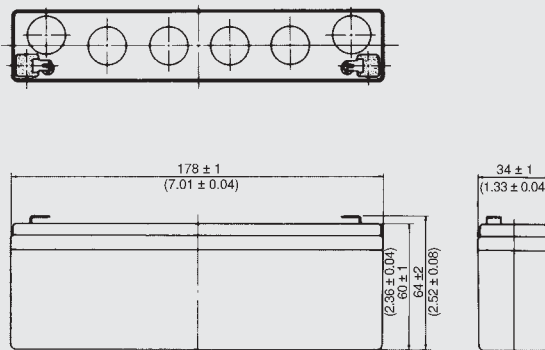
B A T T E R I E S



YUASA
NPH2.3-12
NPH2.3-12FR

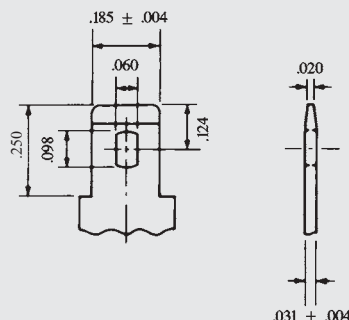
12V, 2.3Ah

Dimensions



DIMENSIONS: MM (INCHES)

Terminal



DIMENSIONS: INCHES

INCH = MM

.250	6.35
.185	4.70
.124	3.15
.098	2.49
.060	1.52
.031	0.79
.020	0.51
.004	0.10

Specifications

NOMINAL VOLTAGE: 12V

NOMINAL CAPACITY:

10 hr. rate of .23A to 10.5 V 2.3Ah

5 hr. rate of .40A to 10.2 V 2.0Ah

1 hr. rate of 1.7A to 9.60 V 1.7Ah

WEIGHT (approx.): 2.05 pounds

ENERGY DENSITY (10 hr. rate):

1.25 WH/cubic inch

SPECIFIC ENERGY (10 hr. rate):

13.5 WH/pound

INTERNAL RESISTANCE OF CHARGED BATTERY:

30 milliohms (approx.)

MAXIMUM DISCHARGE CURRENT

WITH STANDARD TERMINALS:

40 amperes

MAXIMUM SHORT-DURATION

DISCHARGE CURRENT:

75 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:

Quick Disconnect .187

HOUSING MATERIAL: ABS Resin

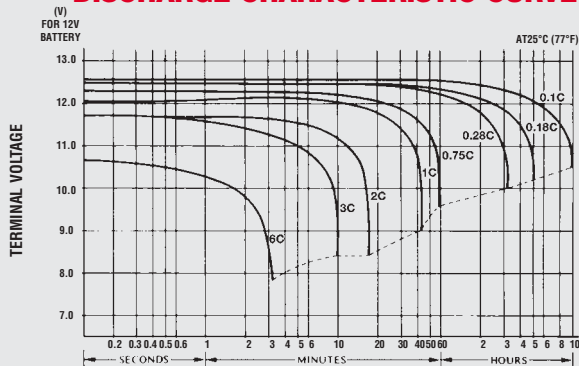
OPTIONAL: Container and cover made from

Flame Retardant ABS (UL94-VO, L.O.I.>28%)

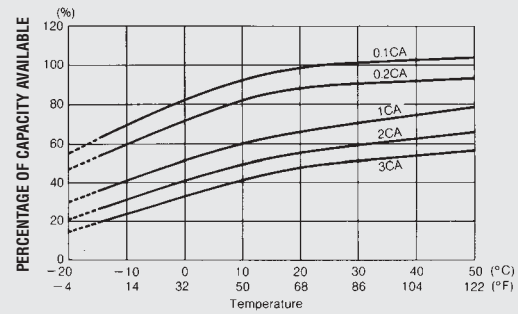


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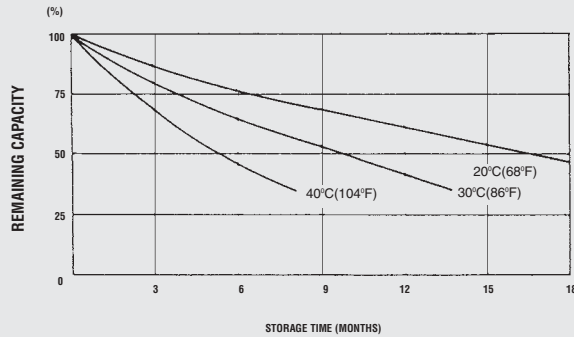
DISCHARGE CHARACTERISTIC CURVES



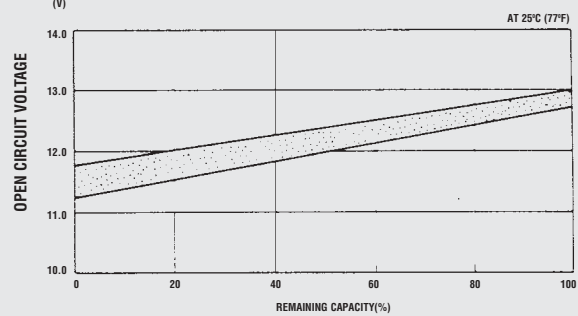
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



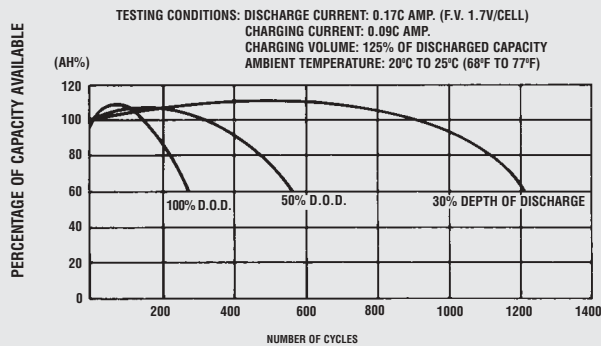
SELF DISCHARGE CHARACTERISTICS



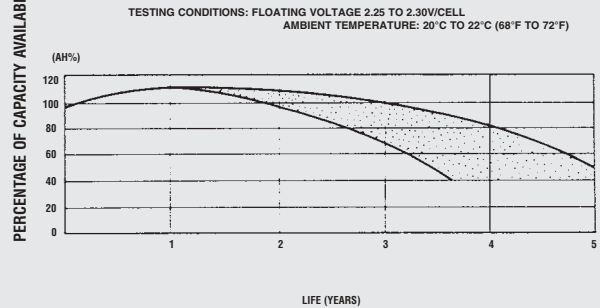
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



FLOAT SERVICE LIFE



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

CHARGING METHODS

Cycle use: Maximum charging current 0.58A
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. EnerSys' 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.



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

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

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