



NP24-12 NP24-12FR

Sealed Rechargeable
Lead-Acid Battery

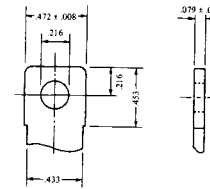
12V, 24Ah

Specifications

- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
 - 20 hr. rate of 1.20A to 10.5V 24.0Ah
 - 10 hr. rate of 2.23A to 10.5V 22.3Ah
 - 5 hr. rate of 4.08A to 10.2V 20.4Ah
 - 1 hr. rate of 14.40A to 9.60V 14.4Ah
- **WEIGHT (approx.):** 19 pounds
- **ENERGY DENSITY (20 hr. rate):** 1.30 WH/cubic inch
- **SPECIFIC ENERGY (20 hr. rate):** 15.2 WH/pound
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 10 milliohms (approx.)
- **MAXIMUM DISCHARGE CURRENT WITH STANDARD TERMINALS:** 150 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 Fastened Terminal or Optional Quick Disconnect .250
- **HOUSING MATERIAL:** ABS Resin
- **OPTIONAL:** Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%)
- **HARDWARE:** 2-M5-.8 x 12mm Bolt w/nuts, lock washer & flat washer

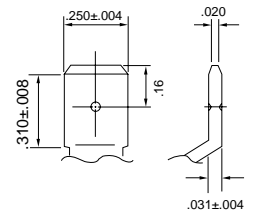
Terminal

Standard



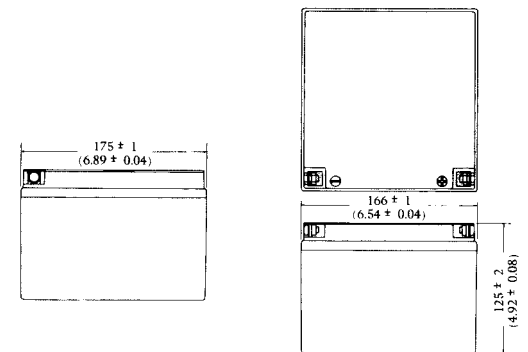
INCH = MM	
.472	12.00
.453	11.50
.433	11.00
.216	5.50
.079	2.00

Optional



INCH = MM	
.310	7.90
.250	6.35
.16	4.0
.031	0.8
.020	0.5

Dimensions



DIMENSIONS: MM (INCHES)

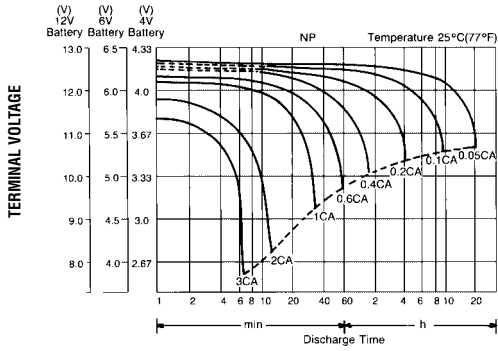
EnerSys™

Power/Full Solutions™

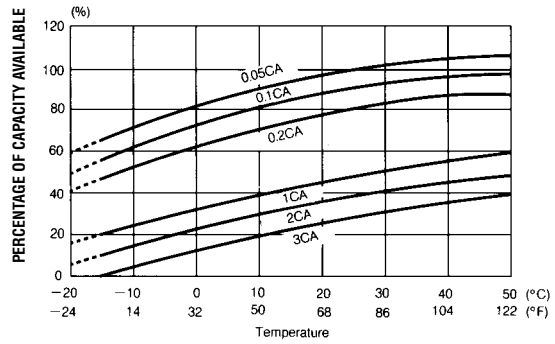


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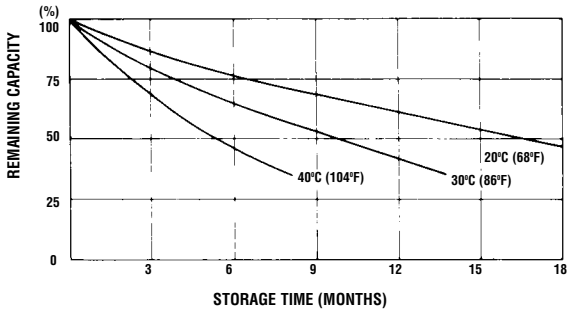
DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



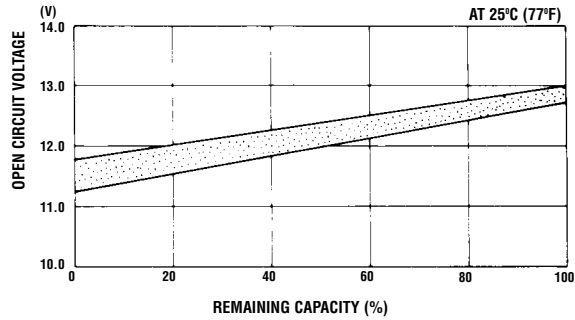
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



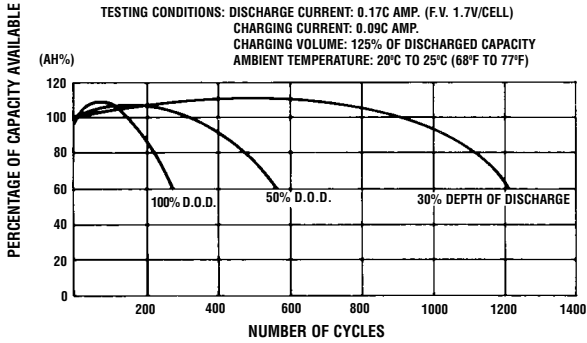
SELF DISCHARGE CHARACTERISTICS



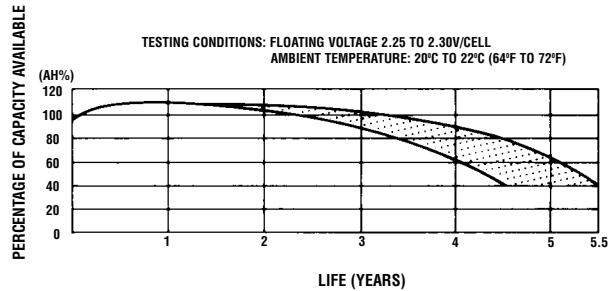
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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 0.25C
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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