



genesisTM
NP

NP33-12R
NP33-12RFR

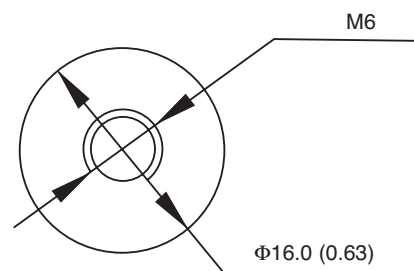
*Sealed Rechargeable
Lead-Acid Battery*

12V, 33Ah

Specifications

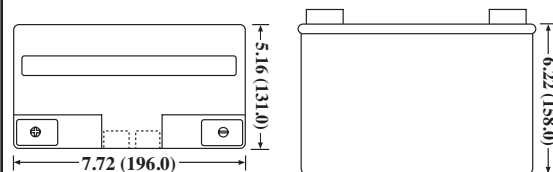
- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
 - 20 hr. rate of 1.65A to 10.5V 33.0Ah
 - 10 hr. rate of 2.97A to 10.5V 29.7Ah
 - 5 hr. rate of 5.28A to 10.2V 26.4Ah
 - 1 hr. rate of 19.8A to 9.60V 19.8Ah
- **WEIGHT (approx.):** 24.0 pounds (10.9kgs)
- **ENERGY DENSITY (20 hr. rate):**
 - 1.6 WH/cubic inch (98.8 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):**
 - 16.5 WH/pound (36.2 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:**
 - 8.7 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:**
 - Receptacle M6 or Bolt
- **HOUSING MATERIAL:** PP Resin
- **OPTIONAL:**
 - Container and cover made from Flame Retardant PP (UL94-V0/L.O.I.>28%)

Terminal



DIMENSIONS: MM (INCHES)

Dimensions



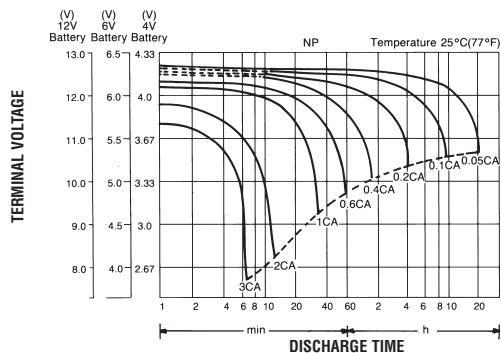
DIMENSIONS: INCHES (MM)

UL listing pending - File No MH16464

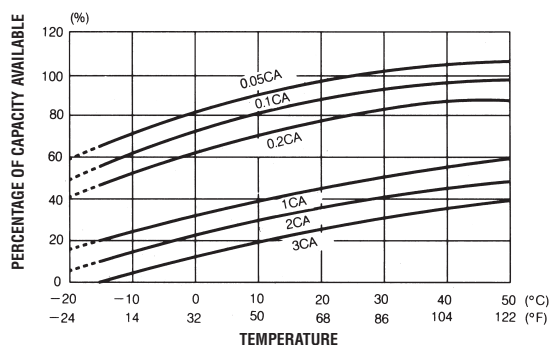
EnerSysTM
Power/Full Solutions



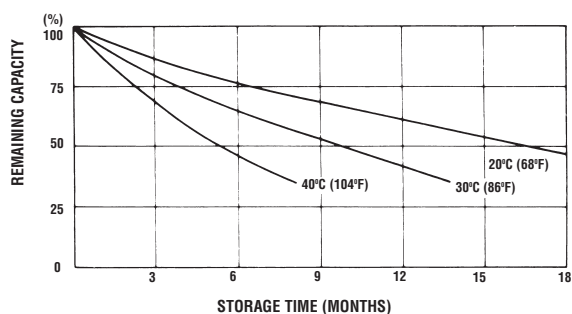
DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



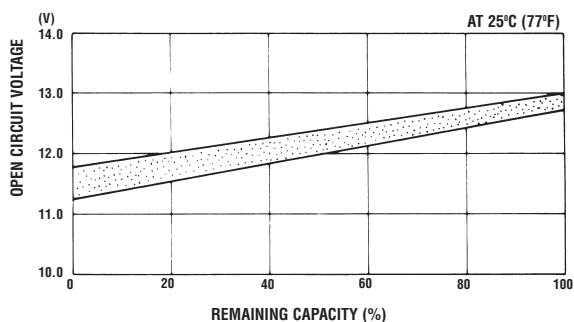
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



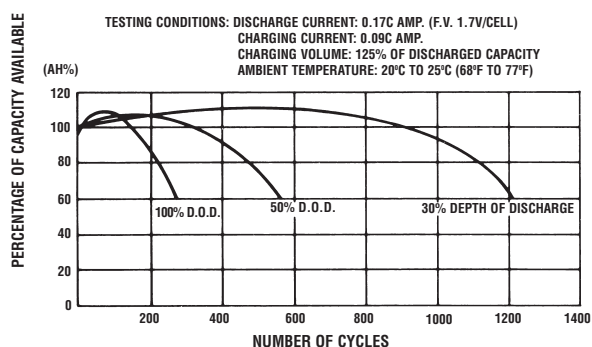
SELF DISCHARGE CHARACTERISTICS



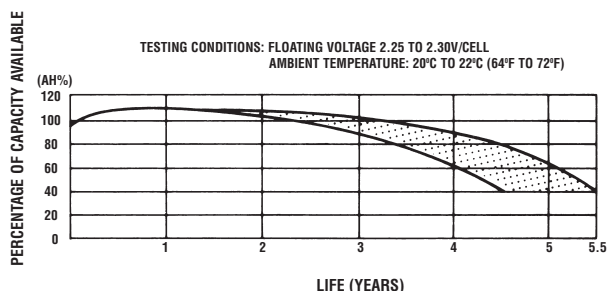
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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 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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