genesis NP

NP100-12
NP100-12FR

Sealed Rechargeable Lead-Acid Battery

12V, 91.6Ah

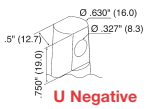
Specifications

- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
  20 hr. rate of 4.6A to 10.5V 91.6Ah
  10 hr. rate of 8.06A to 10.5V 80.6Ah
  5 hr. rate of 15.4A to 10.2V 77.2Ah
  1 hr. rate of 62.6A to 9.60V 62.6Ah
- **WEIGHT (approx.):** 68 pounds (30.8kgs)
- **ENERGY DENSITY (20 hr. rate):**
  1.45 WH/cubic inch (90 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):**
  16.5 WH/pound (36 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:**
  5.1 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:**
  Universal or options in terminal diagram
- **HOUSING MATERIAL:** PP Resin
- **OPTIONAL:**
  Container and cover made from Flame Retardant PP (UL94-V0/L.O.I.>28%)

Terminal

Standard

U Positive Terminal

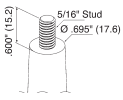


U Negative Terminal

Terminal height above cover

Terminal Type	NP100-12 mm	NP100-12 ins
B	3.3	0.13
NB	21.1	0.83
MJ	26.9	1.06
AP	21.1	0.83
MG	36.3	1.43
U	21.1	0.83

Optional



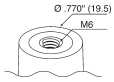
MG Positive

MG Negative

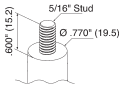
Automotive Type AP Positive

Automotive Type AP Negative

NB Terminal



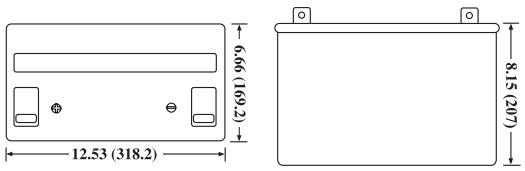
B Terminal



MJ Terminal

Note:
Dimensions are in inches (mm)
Tolerances are ± 0.04 in. (±1mm) and ± 0.08 in. (± 2mm) for height dimensions.

Dimensions



DIMENSIONS: INCHES (MM)

RECOGNIZED BY UL, File No. MH 14328

EnerSys™
Power/Full Solutions™

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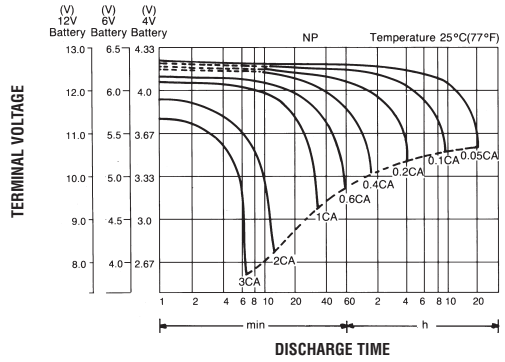
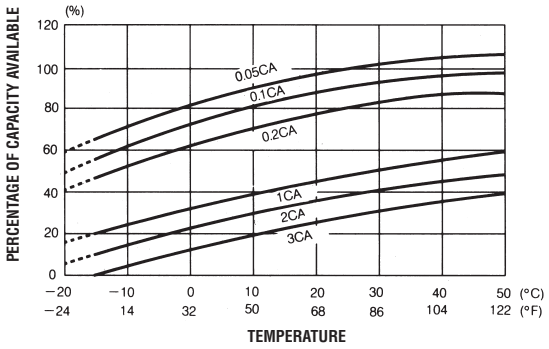
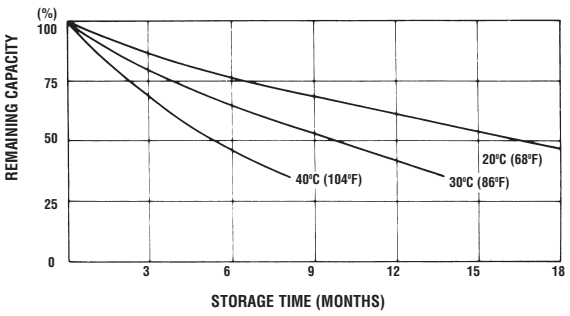
DISCHARGE CHARACTERISTIC CURVES AT 25ºC (77ºF)



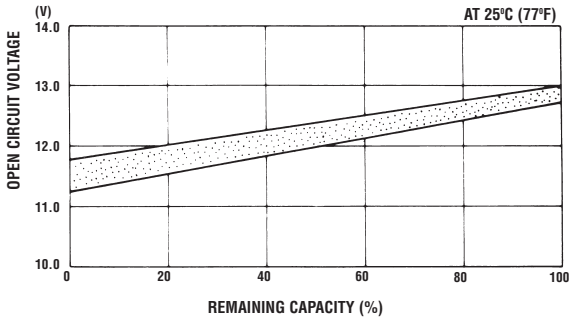
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



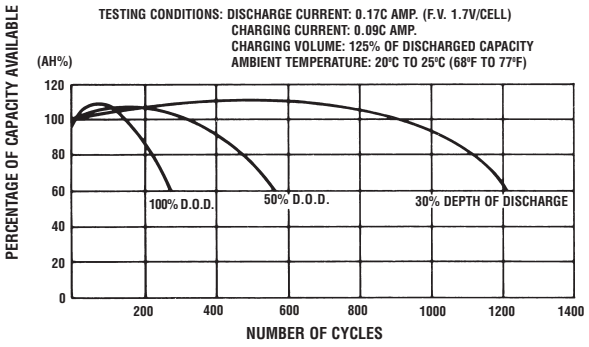
SELF DISCHARGE CHARACTERISTICS



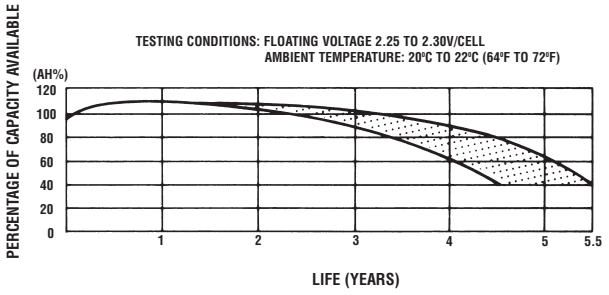
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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 20ºC)

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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