



## NP75-12 NP75-12FR

Sealed Rechargeable  
Lead-Acid Battery

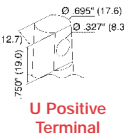
### 12V, 77.5Ah

### Specifications

- **NOMINAL VOLTAGE:** 12V
- **NOMINAL CAPACITY:**
  - 20 hr. rate of 3.87A to 10.5V 77.5Ah
  - 10 hr. rate of 7.18A to 10.5V 71.8Ah
  - 5 hr. rate of 13.6A to 10.2V 68.0Ah
  - 1 hr. rate of 55.4A to 9.60V 55.4Ah
- **WEIGHT (approx.):** 58 pounds (26.3kgs)
- **ENERGY DENSITY (20 hr. rate):** 1.45 WH/cubic inch (90 WH/liter)
- **SPECIFIC ENERGY (20 hr. rate):** 16 WH/pound (35 WH/kg)
- **INTERNAL RESISTANCE OF CHARGED BATTERY:** 5.5 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

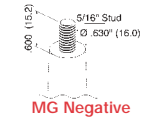
#### Terminal height above cover

Terminal Type	NP75-12	mm	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	

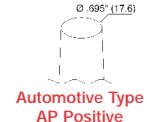
#### Optional



MG Positive



MG Negative



Automotive Type AP Positive



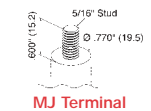
Automotive Type AP Negative



NB Terminal



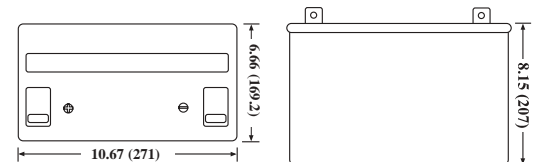
B Terminal



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)

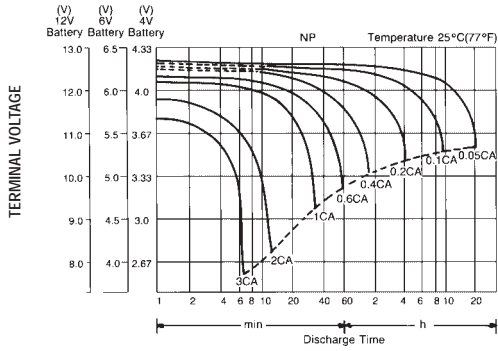
# EnerSys™

Power/Full Solutions™

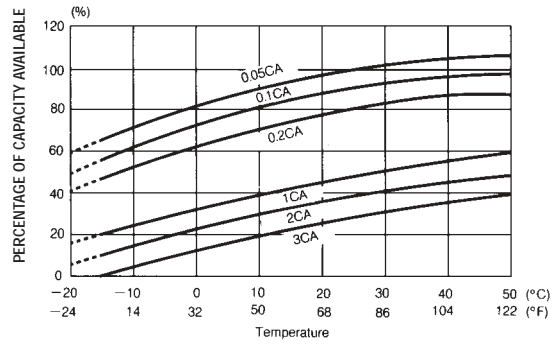


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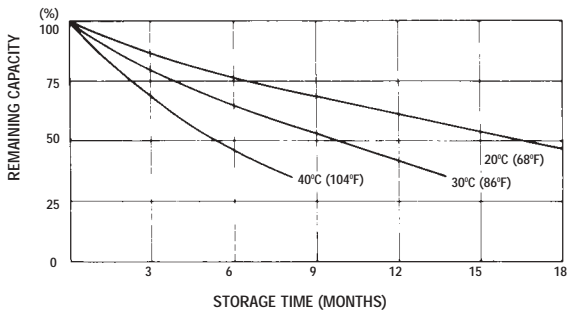
### DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



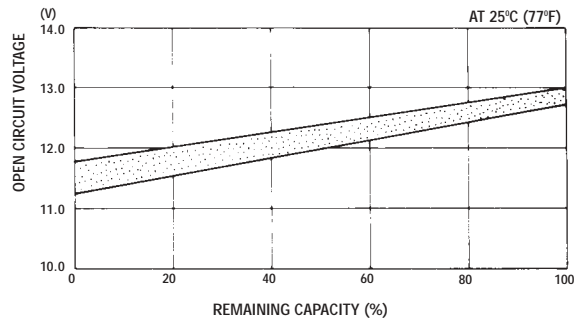
### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



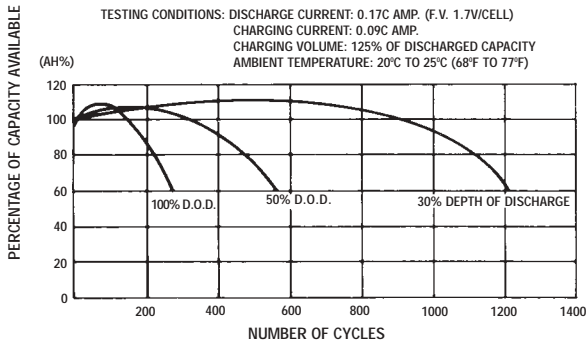
### SELF DISCHARGE CHARACTERISTICS



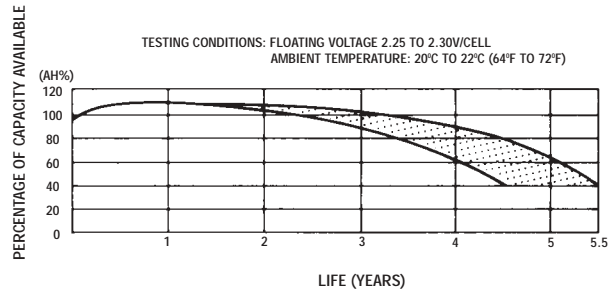
### OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



### 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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