



genesis
NP

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:**

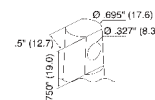
CHARGE	5°F to 122°F
	(-15°C to 50°C)
DISCHARGE	-4°F to 140°F
	(-20°C to 60°C)
- **CHARGE RETENTION (shelf life) at 68°F (20°C):**

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

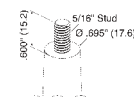


U Negative Terminal

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

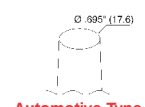
Optional



MG Positive



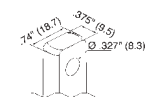
MG Negative



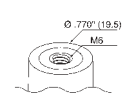
Automotive Type AP Positive



Automotive Type AP Negative



NB Terminal



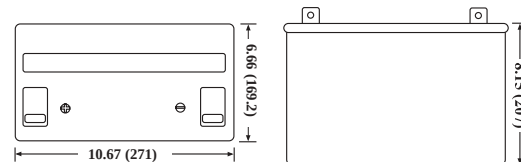
B Terminal



MJ Terminal

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

Dimensions



DIMENSIONS: INCHES (MM)

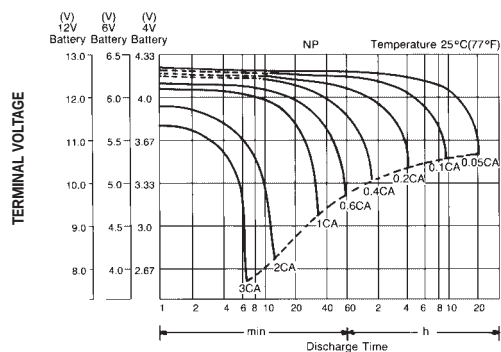
EnerSys

Power/Full Solutions™

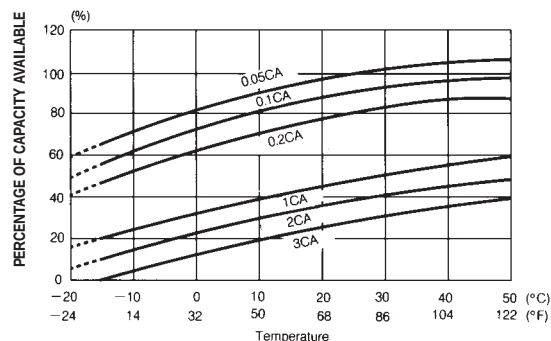


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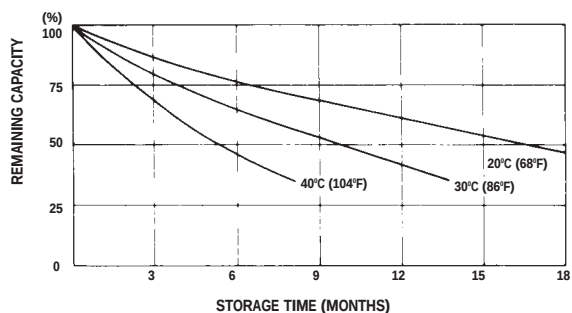
DISCHARGE CHARACTERISTIC CURVES AT 25°C (77°F)



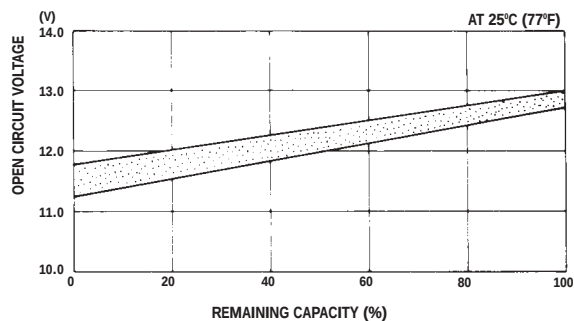
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



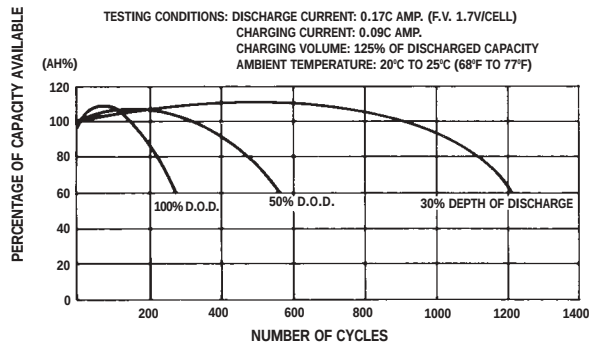
SELF DISCHARGE CHARACTERISTICS



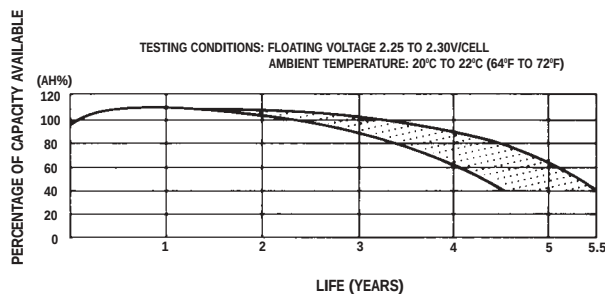
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



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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