



NP24-12R NP24-12RFR

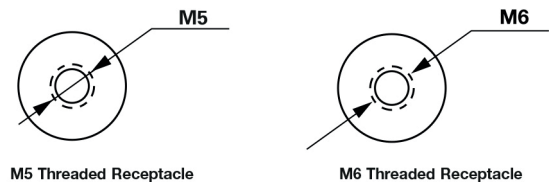
Sealed Rechargeable
Lead-Acid Battery
12V, 24Ah



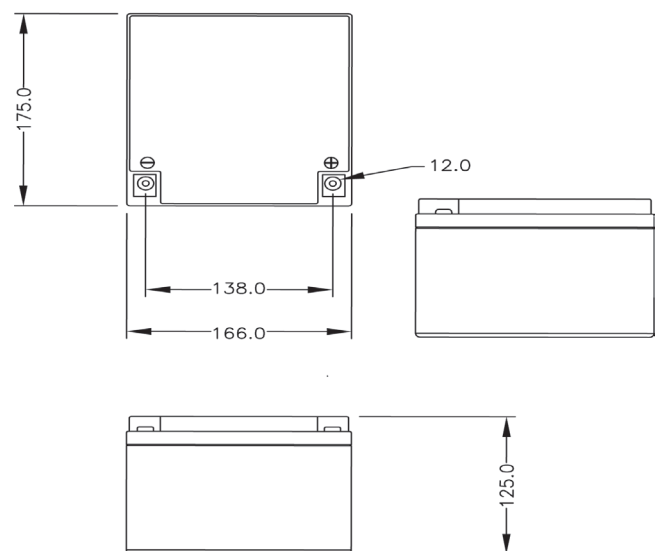
Terminal

Specifications

Nominal Voltage: 12V	Charge Retention (shelf life) at 20°C: 12V
Nominal Capacity at 25°C:	1 month 97%
20 hr. rate of 1.2A to 10.5V 24.0Ah	3 month 91%
10 hr. rate of 2.18A to 10.5V 21.8Ah	6 Months 85%
5 hr. rate of 4.1A to 10.2V 20.5Ah	
1 hr. rate of 17.15A to 9.60V 17.15Ah	
Weight (approx.): 9.07 kgs	Sealed construction Can be operated in any position without leakage
Energy Density (20 hr. rate): 79.0 WH/litre	Standard Terminal: M5 or M6 Threaded Receptacle
Specific Energy (20 hr. rate): 31.8WH/kg	Housing material: ABS Resin
Internal resistance of charged battery: 10 milliohms (approx.)	Optional: Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%) - FR type only
Maximum discharge current with standard terminals: 150 amperes	Standards: The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified
Maximum short-duration discharge current: 500 amperes	VdS Approved Valve-Regulated Lead-Acid battery
Operating Temperature Range: Charge -15°C to 50°C Discharge -20°C to 60°C	



Dimensions

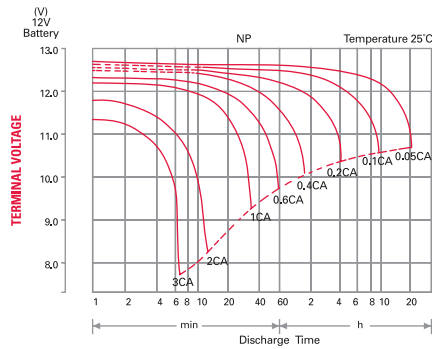


Dimensions: mm



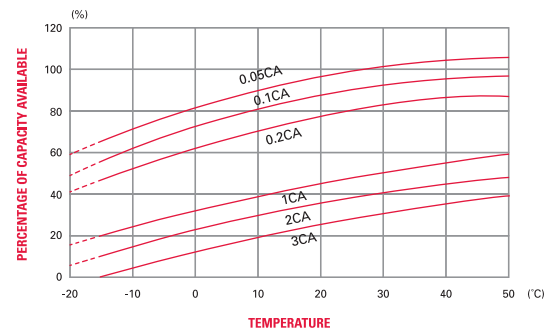
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Discharge characteristic curves at 25°C



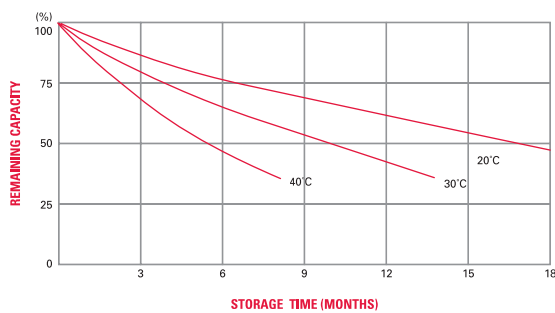
Ref.: Genesis® NP/DataSafe® NPX RS 003 - Mar 2014; Page 4

Temperature effects in relation to battery capacity



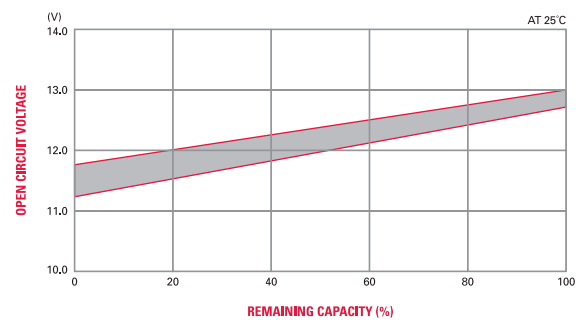
Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 7, Fig. 4

Self discharge characteristics



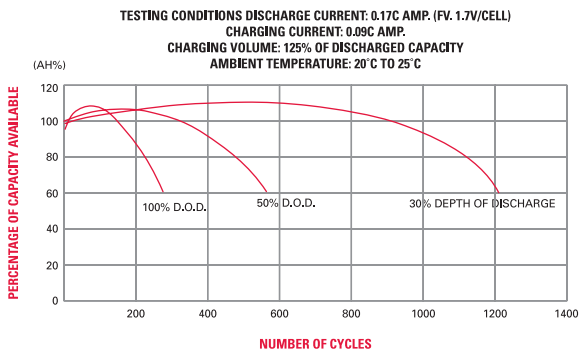
Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 9, Fig. 5

Open circuit voltage vs remaining capacity



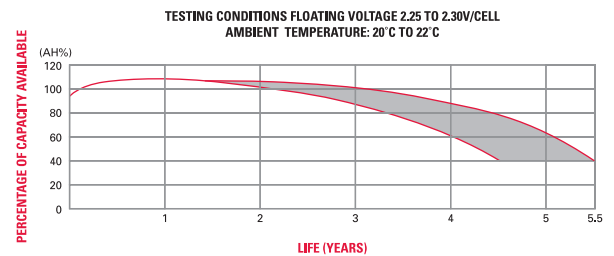
Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 9, Fig. 6

Cycle service life in relation to depth of discharge



Ref.: Genesis NP/DataSafe NPX RS 003 - Mar 2014; Page 4

Float service life



Ref.: Genesis NP/DataSafe NPX RS 003 - Mar 2014; Page 4

Do not operate at 3C or more current continuously.

CHARGING METHODS (at 20°C)

Cycle use: Maximum charging current 6.0A

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 sealed container



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