# NPL SERIES - NPL24-12

# NPL Valve Regulated Lead-acid Batteries (VRLA)

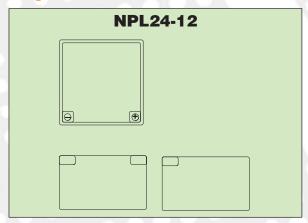
The NPL range is an enhanced NP design resulting in a longer service life (7 - 10yrs). All other attributes and operational characteristics are the same, thereby maintaining the benefit of a common mechanical and electrical design for users of both products.



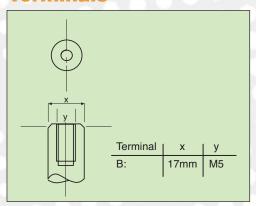
### **FEATURES**

- · Yuasa VRLA batteries can be used in any orientation excluding continuous use inverted.
- Standard case material is flame retardant to (UL94) HBØ.
- FR option case material is flame retardant to UL94:VØ (oxygen index 30).
- NPL batteries are manufactured in factories that comply with ISO 9001:2000.
- FR option NPLs comply with BS6290 Part 4 (1997).
- NPL batteries comply with IEC 60896-21+22.

## Layout



#### **Terminals**



## **Operational Temperature Range**

Charge -15°C to 50°C Discharge -20°C to 60°C

Storage -20°C to 50°C (fully charged condition)

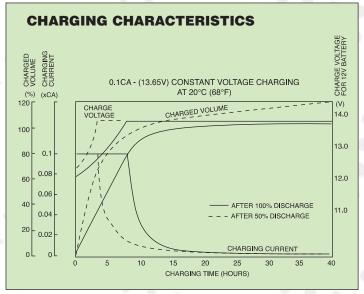
## **General Specifications**

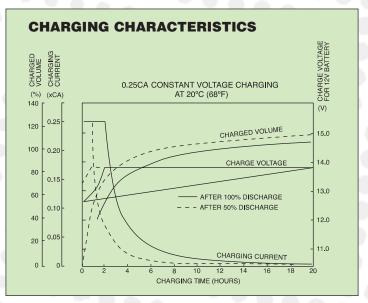
| Nominal Capacity (Ah)    | NPL24-12I |
|--------------------------|-----------|
| 20hr to 1.75vpc 20°C     | 24        |
| 10hr to 1.75vpc 20°C     | 22.3      |
| 5hr to 1.70vpc 20°C      | 20.4      |
| 1hr to 1.60vpc 20°C      | 14.4      |
| Voltage                  | 12        |
| Energy Density (Wh/L)    | 79        |
| Specific Energy (Wh. kg) | 32        |
| Int Resistance (m.ohms)  | 9.5       |
| Maximum discharge (A)    | 150       |
| Short Circuit current    | 500       |
| Dimensions (mm) +/- 2mm  |           |
| Length                   | 166       |
| Width                    | 175       |
| Height overall           | 125       |
| Weight                   | 9         |
| Terminal                 | В         |
| Torque (Nm)              | 2.45      |

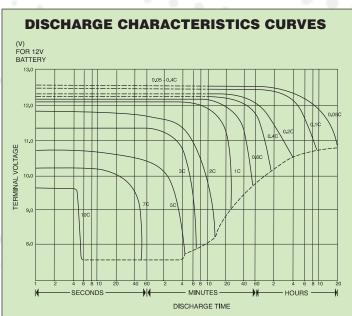
## **Applications**

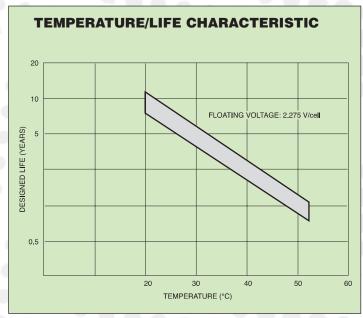
- · Security and Fire · UPS
- · Telecoms · Emergency Lighting

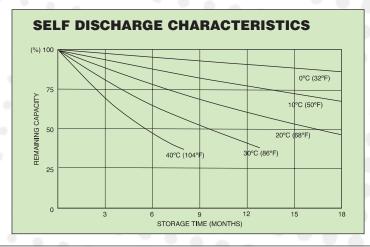
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## Charging Methods (at 20°C)

Standby use: Float charging voltage 2.275vpc

#### CAUTION

- Avoid short circuit.
- Do not charge in a sealed container.
- Service life and operational characteristics will be affected by temperature.
- AC Ripple reduces service life.



#### **Yuasa Battery Corp**

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