

## NPL SERIES - **NPL38-12I**

### NPL Valve Regulated Lead-acid Batteries (VRLA)

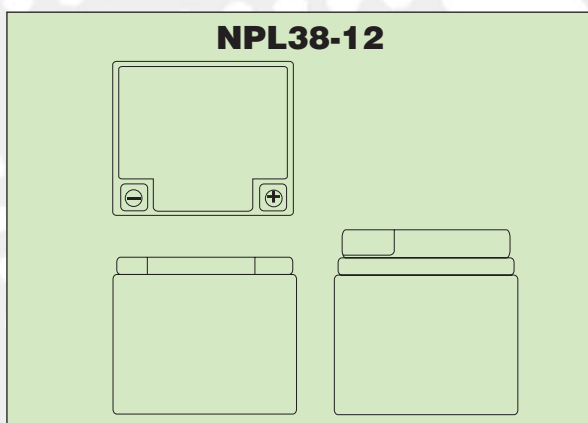
The NPL range is an enhanced NP design resulting in a longer service life (7 - 10yrs). All other attributes and operational characteristics are the same, thereby maintaining the benefit of a common mechanical and electrical design for users of both products.



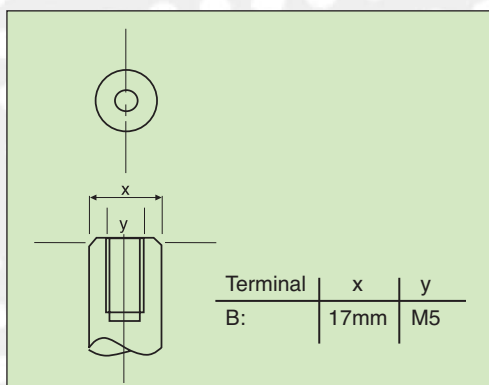
### FEATURES

- 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

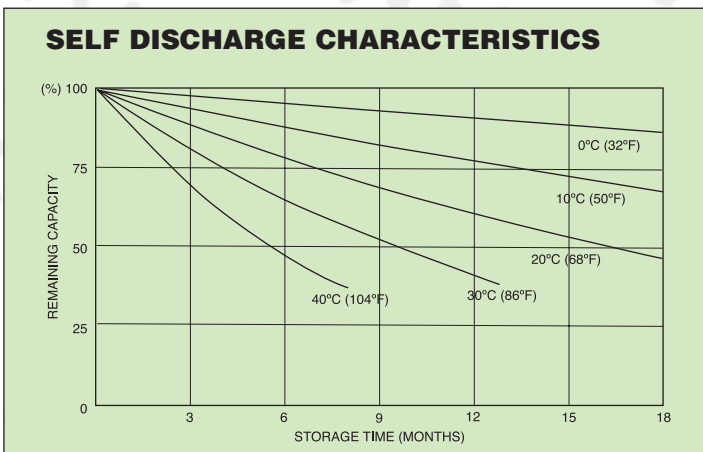
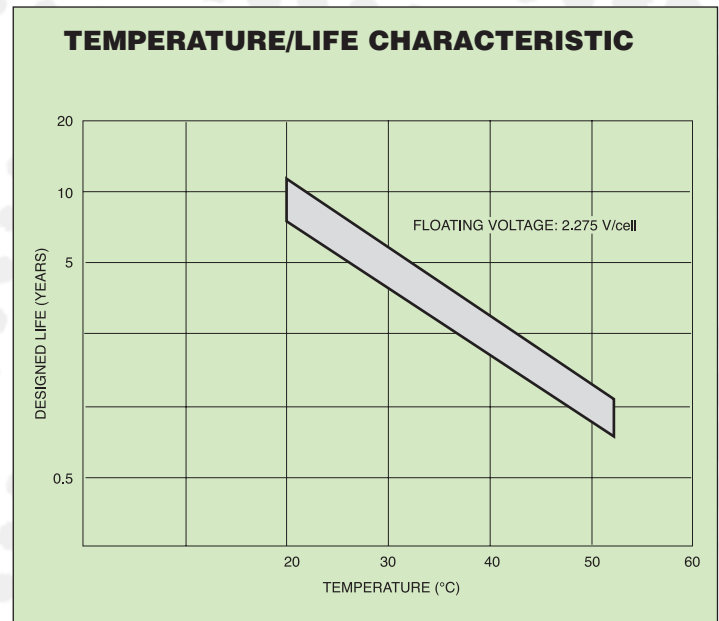
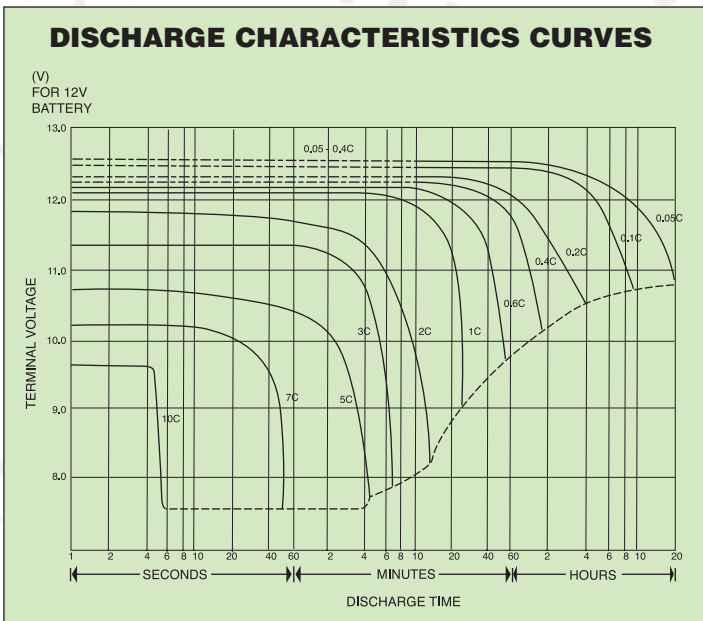
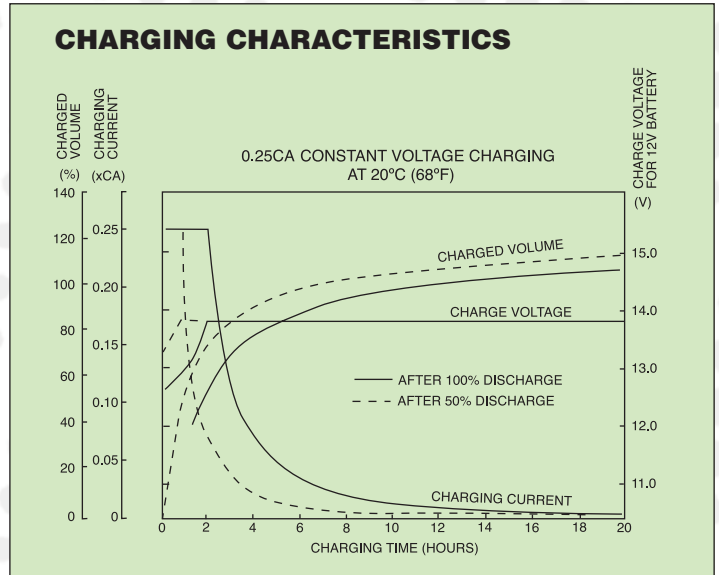
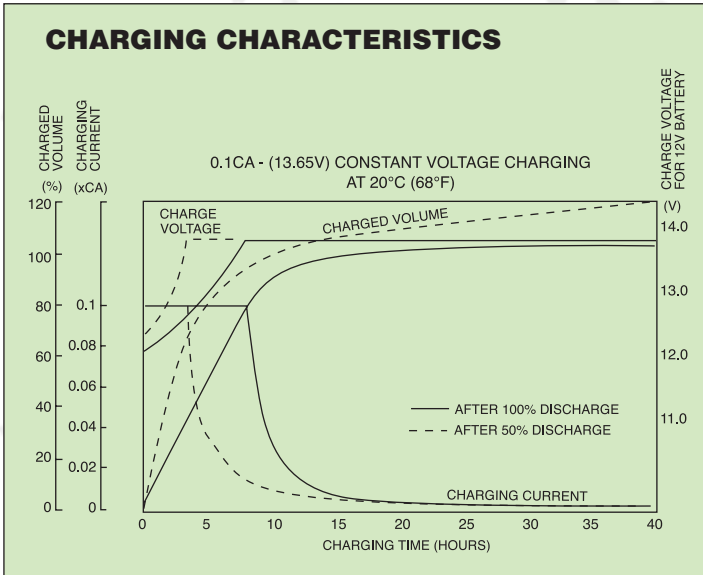
Charge	-15°C to 50°C
Discharge	-20°C to 60°C
Storage	-20°C to 50°C (fully charged condition)

### General Specifications

Nominal Capacity (Ah)	NPL38-12I
20hr to 1.75vpc 20°C	38
10hr to 1.75vpc 20°C	35.3
5hr to 1.70vpc 20°C	32.3
1hr to 1.60vpc 20°C	22.8
Voltage	12
Energy Density (Wh/L)	83
Specific Energy (Wh. kg)	32
Int Resistance (m.ohms)	7.5
Maximum discharge (A)	200
Short Circuit current	500
<b>Dimensions (mm) +/- 2mm</b>	
Length	197
Width	165
Height overall	170
Weight	14.2
Terminal	B
Torque (Nm)	2.45

### Applications

- Security and Fire
- UPS
- Telecoms
- Emergency Lighting



## 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 Sales (UK) Ltd

Unit 22 Rassau Industrial Estate  
Ebbw Vale, Gwent, NP23 5SD  
Tel: 08708 500312 Fax: 08708 500317  
E-mail: enquiries@yuasa-sales.co.uk

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