# **Data Sheet**

# NPL SERIES - NPL78-12IFR

# NPL Valve Regulated Lead-acid Batteries (VRLA)

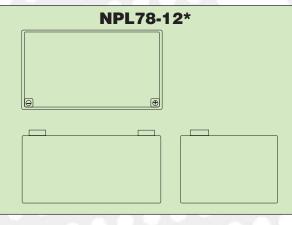
The NPL range is an enhanced NP design resulting in a longer service life (7 - 10yrs). All other attributes and operational characteristics are the same, thereby maintaining the benefit of a common mechanical and electrical design for users of both products.



## **FEATURES**

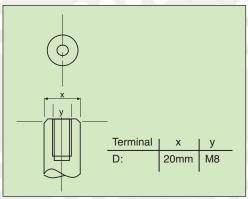
- · Yuasa VRLA batteries can be used in any orientation excluding continuous use inverted.
- Standard case material is flame retardant to (UL94) HBØ.
- FR option case material is flame retardant to UL94:VØ (oxygen index 30).
- NPL batteries are manufactured in factories that comply with ISO 9001:2000.
- 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°CDischarge-20°C to 60°CStorage-20°C to 50°C (fully charged condition)

# **General Specifications**

Nominal Capacity (Ah)	NPL78-12IFR	
20hr to 1.75vpc 20°C	78	
10hr to 1.75vpc 20°C	72.6	
5hr to 1.70vpc 20°C	66.3	
1hr to 1.60vpc 20°C	46.8	
Voltage	12	
Energy Density (Wh/L)	85	
Specific Energy (Wh. kg)	34	
Int Resistance (m.ohms)	<5	
Maximum discharge (A)	500	
Short Circuit current	800	
Dimensions (mm) +/- 2mm		
Length	380	
Width	166	
Height overall	174	
Weight	27.5	
Terminal	D	
Torque (Nm)	6.1	

## **Applications**

Security and Fire · UPS

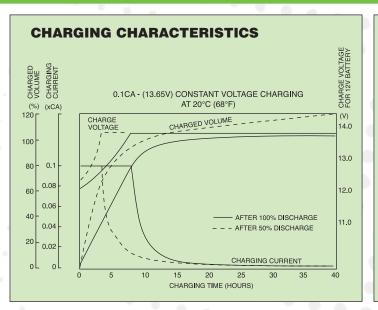
Telecoms 
Emergency Lighting

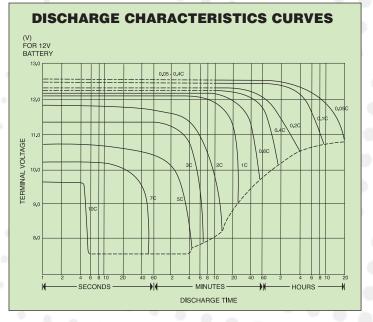
# www.yuasa-battery.co.uk

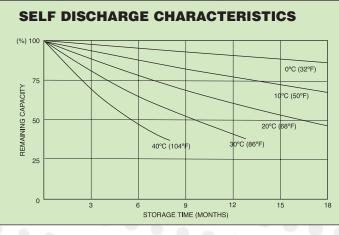
## NPL

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#### Yuasa Battery Sales (UK) Ltd Unit 22 Rassau Industrial Estate Ebbw Vale, Gwent, NP23 5SD

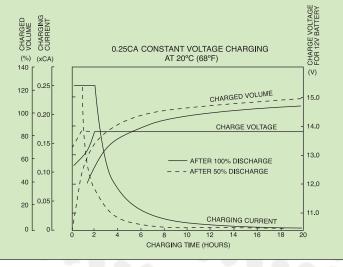
Tel: 08708 500312 Fax: 08708 500317 E-mail: enquiries@yuasa-sales.co.uk

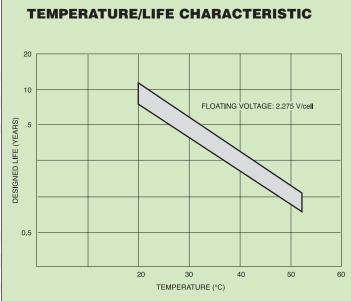
Registered number 1548820

Cat. No. NPL78-12IFR February 07 E&O.E.

www.yuasa-battery.co.uk

#### **CHARGING CHARACTERISTICS**





# **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.

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