

# Product Specification NP1.2-6FR



### Yuasa NP Series VRLA Battery, 5 Years Design Life

The Yuasa NP series is a high energy density Valve Regulated Lead Acid (VRLA) battery that uses advanced plate technology and sealed construction. Its unique sealing technique prevents electrolyte leakage when the battery is mounted either horizontally or vertically. Manufactured in Yuasa quality assured factories, the Yuasa NP series offers absolute reliability and minimal maintenance for end users.

- Sealed construction with pressure relief system
- Operation in any orientation (except in an inverted position)
- · Heavy duty grids
- Low self discharge
- Wide operating temperature range (-15°C to +50°C)
- · Recyclable materials used in battery

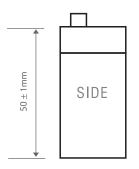
| General Performance     |                         |        |  |
|-------------------------|-------------------------|--------|--|
| Battery                 | NP1.2-6FR               |        |  |
| Application             | Floating                |        |  |
| Design Life             | 5 Years                 |        |  |
| Nominal Capacity        | 1.2Ah                   |        |  |
| Actual Capacity at 25°C | 1 hour rate to 1.60Vpc  | 0.75Ah |  |
|                         | 5 hour rate to 1.70Vpc  | 1.03Ah |  |
|                         | 10 hour rate to 1.75Vpc | 1.09Ah |  |
|                         | 20 hour rate to 1.75Vpc | 1.2Ah  |  |

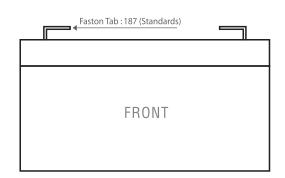


| Electrolyte                  |                     |  |  |
|------------------------------|---------------------|--|--|
| Fully charge density at 25°C | 1.300               |  |  |
| Density Range                | 1.290-1.310         |  |  |
| Gelled/Absorbed              | Absorbed            |  |  |
| Mounting Orientation         | Vertical/Horizontal |  |  |

| Plates           |                        |  |  |
|------------------|------------------------|--|--|
| Positive Plates: |                        |  |  |
| Number/cell      | 2                      |  |  |
| Туре             | Flat                   |  |  |
| Material of grid | Lead-Calcium-Tin Alloy |  |  |
| Thickness        | 3.2mm                  |  |  |
| Negative Plates: |                        |  |  |
| Number/cell      | 3                      |  |  |
| Type             | Flat                   |  |  |
| Material of grid | Lead-Calcium-Tin Alloy |  |  |
| Thickness        | 2 mm                   |  |  |







All reasonable care has been taken to ensure that the data presented in this document is accurate for the purpose for which it is presented. CenturyYuasa reserves the right to make changes to its products and information contained in this document without notice, and shall not be held liable for any loss or damage claimed to have arisen as a result of the use of this brochure.



## Product Specification NP1.2-6FR



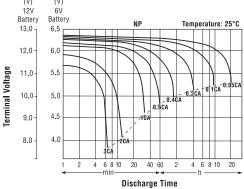
#### Yuasa NP Series VRLA Battery, 5 Years Design Life

| Physical Properties              |   |  |  |
|----------------------------------|---|--|--|
| Separators                       |   |  |  |
| Type                             | Glass Mat                                   |  |  |
| ls glass fibre included?         | Yes   |  |  |
| Container & Cover Materials      |   |  |  |
| Lid Material, Colour             | Acrylonitrile Butadiene Styrene ABS / Black |  |  |
| Container Material, Colour       | Acrylonitrile Butadiene Styrene ABS / Grey  |  |  |
| Flame Retardant                  | Yes   |  |  |
| Safety Vent Operational Pressure | 20kPa                                       |  |  |
| Dimensions:                      |   |  |  |
| Overall Width                    | 97mm  |  |  |
| Depth                            | 25mm  |  |  |
| Height                           | 50mm  |  |  |
| Overall Height                   | 54.5mm                                      |  |  |
| Battery Weight (kg)              |   |  |  |
| Total Weight (wet)               | 0.30kg                                      |  |  |

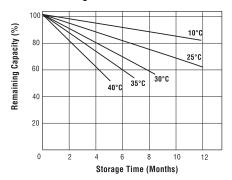
| Electrical Properties             |                 |          |          |
|-----------------------------------|-----------------|----------|----------|
| Self Discharge Rate @ 20°C        | <3% per month   |          |          |
| Normal Charge (Amperes)           | 0.12A           |          |          |
| Max. Charge (Amperes)             | 0.30A           |          |          |
| Internal Resistance (mOHMS)       | 60 mΩ           |          |          |
| Volts End of Charge               | 2.260Vpc @ 25°C |          |          |
|                                   | 20°C            | 25°C     | 30°C     |
| Float Voltage (Vpc)               | 2.275Vpc        | 2.260Vpc | 2.245Vpc |
| Float Current (mA)                | <1.2mA          | <1.2mA   | <1.2mA   |
| Initial Short circuit current (A) | 100             |          |          |
| Efficiency at 10 hour rate (%):   |                 |          |          |
| Ampere-Hour                       | >90%            |          |          |
| Watt-Hour                         | >80%            |          |          |

| Compliant Standard |           |  |
|--------------------|-----------|--|
| Battery Standard   | JIS C8702 |  |

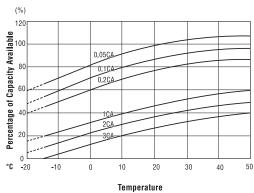
#### ■ Discharge Characteristic Curves: NP Batteries (V) 12V Battery Battery



#### **■** Self Discharge Characteristics



#### **■** Temperature Effects in Relation to Battery Capacity



CenturyYuasa

An affiliated business of the GS Yuasa Corporation, Century Yuasa has an 80-year history of supplying a range of stored energy solutions to the Australian market. An established network of sales and distributions offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service. CenturyYuasa is Australia's enduring manufacturer of stored energy products.