## Yuasa Technical Data Sheet

## Yuasa NP12-12 Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 12 10-hr rate Capacity to 10.8V at 20°C (Ah) 11.1

**Dimensions** 

Length (mm) $151 (\pm 1)$ Width (mm) $98 (\pm 1)$ Height over terminals (mm) $97.5 (\pm 2)$ Mass (kg)4.05

**Terminal Type** 

FASTON - Quickfit / release (IST where stated) 6.35

**Operating Temperature Range** 

Storage (in fully charged condition)  $-20^{\circ}\text{C to } +60^{\circ}\text{C}$ Charge  $-15^{\circ}\text{C to } +50^{\circ}\text{C}$ Discharge  $-20^{\circ}\text{C to } +60^{\circ}\text{C}$ 

**Storage** 

Capacity loss per month at 20°C (% approx.)

**Case Material** 

Standard ABS (UL94:HB)
FR version available UL94:V0

**Charge Voltage** 

Float charge voltage at 20°C (V)/Block 13.65 ( $\pm$ 1%) Float charge voltage at 20°C (V)/Cell 2.275 ( $\pm$ 1%)

Float Chg voltage tmp correction factor from std -3

20°C (mV)

Cyclic (or Boost) charge Voltage at  $20^{\circ}$ C (V)/Block 14.5 ( $\pm 3\%$ ) Cyclic (or Boost) charge Voltage at  $20^{\circ}$ C (V)/Cell 2.42 ( $\pm 3\%$ ) Cyclic Chg voltage tmp correction factor from std -4

20°C (mV)

**Charge Current** 

Float charge current limit (A)

Cyclic (or Boost) charge current limit (A)

No limit

3

**Maximum Discharge Current** 

1 second (A) 360 1 minute (A) 75

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 44.39

 $(m\Omega)$ 

Short-Circuit current - according to EN IEC 320

60896-21 (A) **Impedance** 

Measured at 1 kHz (m $\Omega$ ) 16

**Design Life & Approvals** 

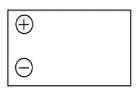
EUROBAT Classification: Standard Commercial 3 to 5 Yuasa design life at 20°C (yrs) up to 5

VdS (Germany) VdS No: G189170





## Layout



## **3rd Party Certifications**

ISO9001 - Quality Management Systems UNDERWRITERS LABORATORIES Inc.





# Safety

## Installation

Can be installed and operated in any orientation except permanently inverted.

#### **Handles**

Batteries must not be suspended by their handles (where fitted).

#### **Vent valves**

Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

#### Gas release

VRLA batteries release hydrogen gas which can form explosive mixtures in the air. Do not place inside a sealed container.

### Recycling

YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations.







