# Yuasa Technical Data Sheet

#### Yuasa NP2.1-12 Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 2.1 10-hr rate Capacity to 10.8V at 20°C (Ah) 1.9

**Dimensions** 

 $\begin{array}{lll} \text{Length (mm)} & 178 \ (\pm 1) \\ \text{Width (mm)} & 34 \ (\pm 1) \\ \text{Height over terminals (mm)} & 64 \ (\pm 2) \\ \text{Mass (kg)} & 0.82 \\ \end{array}$ 

**Terminal Type** 

FASTON - Quickfit / release (JST where stated) 4.75

**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) No limit
Cyclic (or Boost) charge current limit (A) 0.525

**Maximum Discharge Current** 

1 second (A) 63 1 minute (A) 21

**Impedance** 

Measured at 1 kHz ( $m\Omega$ ) 65

**Design Life & Approvals** 

EUROBAT Classification: Standard Commercial 3 to 5
Yuasa design life at 20°C (yrs) up to 5
VdS (Germany) VdS No: G 100012





#### 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.









