# Yuasa Technical Data Sheet

## Yuasa NP7-12FR Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 6.4 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)

**Dimensions** 

Length (mm) 151 (±1) Width (mm) 65 (±1) Height over terminals (mm) 97.5 (±2) Mass (kg) 2.2

**Terminal Type** 

FASTON - Quickfit / release (IST where stated) 4.75

**Operating Temperature Range** 

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

**Storage** 

Capacity loss per month at 20°C (% approx.) 3

**Case Material** 

ABS (UL94:V0) Standard

**Charge Voltage** 

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

Float Chg voltage tmp correction factor from std -3

20°C (mV)

Cyclic (or Boost) charge Voltage at 20°C (V)/Block 14.5 (±3%) Cyclic (or Boost) charge Voltage at 20°C (V)/Cell

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) 1.75

**Maximum Discharge Current** 

1 second (A) 210 1 minute (A) 48

**Impedance** 

Measured at 1 kHz ( $m\Omega$ ) 23

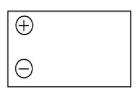
**Design Life & Approvals** 

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





# Layout



## **3rd Party Certifications**

ISO9001 - Quality Management Systems



# Safety

# Installation

Can be installed and operated in orientations up to 90° from the upright position.

#### **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.









