# Yuasa Technical Data Sheet

#### Yuasa NP24-12I Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 24 10-hr rate Capacity to 10.8V at 20°C (Ah) 22.3

**Dimensions** 

Length (mm) 166 (±1) Width (mm) 175 (±1) Height (mm) 125 (±2) Mass (kg)

**Terminal Type** 

Threaded terminal - (M=Male or F=Female) M5 (F) 2.45 Torque (Nm)

**Operating Temperature Range** 

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

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 (±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) 6

**Maximum Discharge Current** 

500 1 second (A) 1 minute (A) 150

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 22.19  $(m\Omega)$ 

Short-Circuit current - according to EN IEC 656

60896-21 (A) **Impedance** 

Measured at 1 kHz (m $\Omega$ ) 11

**Design Life & Approvals** 

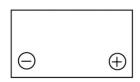
**EUROBAT Classification: Standard Commercial** 3 to 5 years Yuasa design life at 20°C (yrs) up to 5

VdS (Germany) VdS No: G 182026





## Layout



### **3rd Party Certifications**

ISO9001 - Quality Management Systems ISO14001 - Environmental Management Systems ISO45001 OHSAS 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.









