# Yuasa Technical Data Sheet

# Yuasa NP38-12I Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 38 10-hr rate Capacity to 10.8V at 20°C (Ah) 35.3

**Dimensions** 

 Length (mm)
 197 (±1)

 Width (mm)
 165 (±1)

 Height (mm)
 170 (±2)

 Mass (kg)
 14.2

**Terminal Type** 

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

**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°C (V)/Block 14.5 ( $\pm$ 3%) Cyclic (or Boost) charge Voltage at 20°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) 9.5

**Maximum Discharge Current** 

1 second (A) 500 1 minute (A) 200

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 18.22

 $(m\Omega)$ 

Short-Circuit current - according to EN IEC 804

60896-21 (A)

Impedance
Measured at 1 kHz (m $\Omega$ )
9

**Design Life & Approvals** 

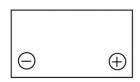
EUROBAT Classification: Standard Commercial 3 to 5 years Yuasa design life at 20°C (yrs) up to 5

VdS (Germany) VdS No: G 182024





## 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.







