## Yuasa Technical Data Sheet

## Yuasa NP65-12I Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 60.5 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) 65

**Dimensions** 

 Length (mm)
 350 (±1)

 Width (mm)
 166 (±1)

 Height (mm)
 174 (±2)

 Mass (kg)
 23

**Terminal Type** 

Threaded terminal - (M=Male or F=Female) M6 (F) Torque (Nm) 4.76

**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)

**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) 16.25

**Maximum Discharge Current** 

1 second (A) 800 1 minute (A) 500

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 10.51

(mt2)

Short-Circuit current - according to EN IEC 1375

60896-21 (A) **Impedance** 

Measured at 1 kHz (mΩ)

**Design Life & Approvals** 

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

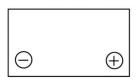
VdS (Germany) VdS No: G 183008

7





## 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.







