# Yuasa Technical Data Sheet

# Yuasa RE5-12 Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 4.6 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) 5

**Dimensions** 

 Length (mm)
  $90 (\pm 0.5)$  

 Width (mm)
  $70 (\pm 0.5)$  

 Height (mm)
  $102 (\pm 0.5)$  

 Height over terminals (mm)
  $106 (\pm 0.5)$  

 Mass (kg)
 1.96 

**Terminal Type** 

FASTON - Quickfit / release (IST where stated) 6.35

**Operating Temperature Range** 

Storage (in fully charged condition)  $-15^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$  Charge  $-15^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$  Discharge  $-15^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$ 

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) 1.25

**Maximum Discharge Current** 

1 second (A) 120 1 minute (A) 40

**Impedance** 

Measured at 1 kHz ( $m\Omega$ ) 42

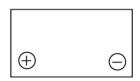
**Design Life & Approvals** 

EUROBAT Classification: General Purpose 6 to 9 years Yuasa design life at 20°C (yrs) up to 10 years





## 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.









