# Yuasa Technical Data Sheet

### Yuasa REC80-12I Industrial VRLA Battery

**Specifications** Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 80 10-hr rate Capacity to 10.8V at 20°C (Ah) 74

**Dimensions** 

Length (mm) 259 (±3) Width (mm) 168 (±3) 212.5 (±3) Height (mm) Height over terminals (mm) 212.5 (±3) Mass (kg) 27

**Terminal Type** 

Threaded terminal - (M=Male or F=Female) M6 (F) Torque (Nm) 3.9-5.4

**Operating Temperature Range** 

Storage (in fully charged condition) -15°C to +50°C -0°C to +40°C Charge -15°C to +40°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 14.52 (±3%) Cyclic (or Boost) charge Voltage at 20°C (V)/Cell 2.42 (±3%) Cyclic Chg voltage tmp correction factor from std -4

> 20 20

20°C (mV)

**Charge Current** Float charge current limit (A)

Cyclic (or Boost) charge current limit (A)

**Maximum Discharge Current** 

1 second (A) 480 1 minute (A) 310

**Cyclic Life Data** 

100% DOD down to 80% capacity 300 75% DOD down to 80% capacity 500 50% DOD down to 80% capacity 600 25% DOD down to 80% capacity 1400

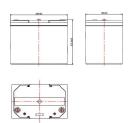
**Impedance** 

Measured at 1 kHz (m $\Omega$ ) 4.7





#### 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).

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.









