## Yuasa Technical Data Sheet

#### Yuasa REC50-12 Industrial VRLA Battery

12
50
40

**Dimensions** 

197 (±2) Length (mm) Width (mm) 165 (±2) Height (mm) 175 (±2) Mass (kg) 15.3

**Terminal Type** 

Threaded terminal - (M=Male or F=Female) M5 (F) Torque (Nm) 2-3Nm

**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)

**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°C (mV)

**Charge Current** 

Float charge current limit (A) 12.5 12.5 Cyclic (or Boost) charge current limit (A)

**Maximum Discharge Current** 

1 second (A) 400 1 minute (A) 185

**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 $\Omega$ ) 5.7

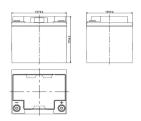
**Design Life & Approvals** 

**EUROBAT Classification: General Purpose** 6 to 9 Yuasa design life at 20°C (yrs) 7





#### Layout



### **3rd Party Cerfifications**

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.









