# Yuasa Technical Data Sheet

# Yuasa REC22-12B Industrial VRLA Battery

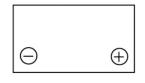
| Specifications |
|----------------|
|----------------|

| <b>Specifications</b><br>Nominal voltage (V)<br>20-hr rate Capacity to 10.5V at 20°C (Ah)<br>10-hr rate Capacity to 10.8V at 20°C (Ah)   | 12<br>22<br>19.7  |
|--|---|
| Dimensions<br>Length (mm)<br>Width (mm)<br>Height (mm)<br>Mass (kg)  | 181 (±2)<br>76.2 (±1)<br>167 (±2)<br>6.2                            |
| <b>Terminal Type</b><br>Threaded terminal - (M=Male or F=Female)<br>Torque (Nm)  | M5 LUG<br>2-3Nm   |
| <b>Operating Temperature Range</b><br>Storage (in fully charged condition)<br>Charge<br>Discharge  | -15°C to +50°C<br>-0°C to +40°C<br>-15°C to +40°C                   |
| <b>Storage</b><br>Capacity loss per month at 20°C (% approx.)  | 3   |
| <b>Case Material</b><br>Standard<br>FR version available   | ABS (UL94:HB)<br>UL94:V0  |
| <b>Charge Voltage</b><br>Float charge voltage at 20°C (V)/Block<br>Float charge voltage at 20°C (V)/Cell<br>Float Chg voltage tmp correction factor from std<br>20°C (mV)<br>Cyclic (or Boost) charge Voltage at 20°C (V)/Block<br>Cyclic (or Boost) charge Voltage at 20°C (V)/Cell<br>Cyclic Chg voltage tmp correction factor from std<br>20°C (mV) | 13.65 (±1%)<br>2.275 (±1%)<br>-3<br>14.52 (±3%)<br>2.42 (±3%)<br>-4 |
| <b>Charge Current</b><br>Float charge current limit (A)<br>Cyclic (or Boost) charge current limit (A)  | 5.5<br>5.5  |
| Maximum Discharge Current<br>1 second (A)<br>1 minute (A)  | 330<br>140  |
| <b>Cyclic Life Data</b><br>100% DOD down to 80% capacity<br>75% DOD down to 80% capacity<br>50% DOD down to 80% capacity<br>25% DOD down to 80% capacity   | 300<br>500<br>600<br>1400   |
| <b>Impedance</b><br>Measured at 1 kHz (mΩ)   | 8.2   |





### 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.



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