# Yuasa Technical Data Sheet

### Yuasa SWL1100 Industrial VRLA Battery

<b>Specifications</b> Nominal voltage (V) 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	12 1202
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	200
20-hr rate Capacity to 10.5V at 20°C (Ah) 10-hr rate Capacity to 10.8V at 20°C (Ah)	40.6 39.6
Dimensions Length (mm) Width (mm) Height (mm) Mass (kg)	197 (±2) 165 (±1) 170 (±2) 14.5
<b>Terminal Type</b> Threaded terminal - (M=Male or F=Female) Torque (Nm)	M5 (F) 2.5
<b>Operating Temperature Range</b> Storage (in fully charged condition) Charge Discharge	-20°C to +60°C -15°C to +50°C -20°C to +60°C
<b>Storage</b> Capacity loss per month at 20°C (% approx.)	3
<b>Case Material</b> Standard FR version available	ABS (UL94:HB) UL94:V0
<b>Charge Voltage</b> Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV)	13.65 (±1%) 2.275 (±1%) -3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV)	14.5 (±3%) 2.42 (±3%) -4
<b>Charge Current</b> Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 9.9
Maximum Discharge Current 1 second (A)	
1 minute (A)	500 200
1 minute (A) <b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21	200
1 minute (A) Short-Circuit Current & Internal Resistance	200
1 minute (Å) <b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21 (m $\Omega$ ) Short-Circuit current - according to EN IEC	200 14.4
1 minute (Å) <b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21 ( $m\Omega$ ) Short-Circuit current - according to EN IEC 60896-21 (Å) <b>Impedance</b>	200 14.4 1005

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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.



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