# Yuasa Technical Data Sheet

### Yuasa SWL1100 Industrial VRLA Battery

Specifications Nominal voltage (V)	12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	1202
10m rate Constant Power (Typ) to 1.6V/cell at	200.3
20°C (W/Cell) 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)	197 (±0.5)
Width (mm) Height (mm)	165 (±0.5) 170 (±0.5)
Mass (kg)	14.5
Terminal Type	
Threaded terminal - (M=Male or F=Female)	M5 (F)
Torque (Nm)	2.5
<b>Operating Temperature Range</b> Storage (in fully charged condition)	-20°C to +60°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C
Storage	
Capacity loss per month at 20°C (% approx.)	3
Case Material	
Standard FR version available	ABS (UL94:HB) UL94:V0
	0194.00
<b>Charge Voltage</b> 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	14.5 (±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)	No limit
Cyclic (or Boost) charge current limit (A)	9.9
Maximum Discharge Current	
1 second (A)	500
1 minute (A)	200
Short-Circuit Current & Internal Resistance	
Internal resistance - according to EN IEC 60896-21 $(m\Omega)$	14.4
Short-Circuit current - according to EN IEC	1005
60896-21 (A)	
Impedance	
Measured at 1 kHz (mΩ)	7.5
Design Life & Approvals	10 to 12
EUROBAT Classification: Long life Yuasa design life at 20°C (yrs)	10 to 12 up to 10

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Layout



## **3rd Party Certifications**

ISO9001 - Quality Management Systems ISO14001 - Environmental Management Systems EN 18001 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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