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
Operating Temperature Range 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
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	14.5 (±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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