Yuasa Technical Data Sheet

Yuasa SWL1800FR Industrial VRLA Battery

Specifications	10
Nominal voltage (V) 10m rate Constant Power (Typ) to 9.6V at 20°C	12 1974
(W/Block) 10m rate Constant Power (Typ) to 1.6V/cell at	329
20°C (W/Cell) 20-hr rate Capacity to 10.5V at 20°C (Ah)	57.6
10-hr rate Capacity to 10.8V at 20°C (Ah)	55
Dimensions Length (mm)	216 (±0.7)
Width (mm)	168 (±0.5)
Height (mm)	223 (±0.7)
Mass (kg)	23
Terminal Type Threaded terminal - (M=Male or F=Female)	M6 (F)
Torque (Nm)	4.8
Operating Temperature Range	
Storage (in fully charged condition)	-20°C to +50°C
Charge Discharge	-15°C to +50°C -20°C to +60°C
Storage	20 2 10 100 2
Capacity loss per month at 20°C (% approx.)	3
Case Material	
Standard	ABS (UL94:V0)
Charge Voltage	
	10 (5 (1 10/)
Float charge voltage at 20°C (V)/Block	13.65 (±1%) 2.275 (±1%)
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std	13.65 (±1%) 2.275 (±1%) -3
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)	2.275 (±1%) -3
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) Cyclic (or Boost) charge Voltage at 20°C (V)/Block	2.275 (±1%) -3 14.5 (±3%)
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) 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	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%)
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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) 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)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%)
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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) 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) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A) Cyclic (or Boost) charge current 1 second (A) 1 minute (A)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit 13.75
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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) 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) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A) Cyclic (or Boost) charge current 1 second (A) 1 minute (A)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit 13.75 800 500
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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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