Yuasa Technical Data Sheet

Yuasa SWL1800FR Industrial VRLA Battery

Specifications Nominal voltage (V)	12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	1974
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	322
20-hr rate Capacity to 10.5V at 20°C (Ah) 10-hr rate Capacity to 10.8V at 20°C (Ah)	57.6 55
Dimensions Length (mm)	216 (±3)
Width (mm) Height (mm) Mass (kg)	168 (±2) 223 (±1) 23.2
Terminal Type	
Threaded terminal - (M=Male or F=Female) Torque (Nm)	M6 (F) 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	
Capacity loss per month at 20°C (% approx.)	3
Case Material Standard	ABS (UL94:V0)
Charge Voltage	
Float charge voltage at 20°C (V)/Block	13.65 (±1%)
Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std	2.275 (±1%) -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	
20°C (mV)	
Charge Current	N
Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 13.75
Maximum Discharge Current	13.73
1 second (A)	800
1 minute (A)	500
Short-Circuit Current & Internal Resistance Internal resistance - according to EN IEC 60896-21	10.00
$(m\Omega)$	10.09
Short-Circuit current - according to EN IEC 60896-21 (A)	1437
Impedance	
Measured at 1 kHz (mΩ)	6
Design Life & Approvals	
EUROBAT Classification: Long life	10 to 12
Yuasa design life at 20°C (yrs)	up to 10





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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