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) Width (mm)	216 (±3) 168 (±2)
Height (mm) Mass (kg)	223 (±1) 23.2
Terminal Type	
Threaded terminal - (M=Male or F=Female) Torque (Nm)	M6 (F) 4.8
Operating Temperature Range	20%C to 150%C
Storage (in fully charged condition) Charge	-20°C to +50°C -15°C to +50°C
Discharge	-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	2.275 (±1%)
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block	14.5 (±3%)
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std	2.42 (±3%) -4
20°C (mV)	
Charge Current	N1. 11. 11
Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 13.75
Maximum Discharge Current	
1 second (A)	800
1 minute (A) Short-Circuit Current & Internal Resistance	500
Internal resistance - according to EN IEC 60896-21 $(m\Omega)$	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 Yuasa design life at 20°C (yrs)	10 to 12 years up to 10 years
Tuasa design nie at 20 °C (yrs)	up to To years





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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