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 1974
(W/Block)
10m rate Constant Power (Typ) to 1.6V/cell at 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)

Terminal Type
Threaded terminal - (M=Male or F=Female)
M6 (F)
Torque (Nm)
4.8

Mass (kg)

Operating Temperature RangeStorage (in fully charged condition)-20°C to +50°CCharge-15°C to +50°CDischarge-20°C to +60°C

23

StorageCapacity 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 (\pm 1%) Float charge voltage at 20°C (V)/Cell 2.275 (\pm 1%) Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block 14.5 (\pm 3%) Cyclic (or Boost) charge Voltage at 20°C (V)/Cell 2.42 (\pm 3%)

Cyclic Chg voltage tmp correction factor from std -4 20°C (mV)

Charge Current
Float charge current limit (A)

Cyclic (or Boost) charge current limit (A)

No limit
13.75

Maximum Discharge Current1 second (A)8001 minute (A)500

Short-Circuit Current & Internal Resistance Internal resistance - according to EN IEC 60896-21 10.09

Short-Circuit current - according to EN IEC 1437 60896-21 (A)

 $\label{eq:mpedance} \begin{array}{ll} \text{Measured at 1 kHz (m}\Omega) & 6 \end{array}$

Design Life & ApprovalsEUROBAT Classification: Long life
Yuasa design life at 20°C (yrs)

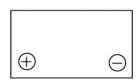
10 to 12

up to 10





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.







