# Yuasa Technical Data Sheet

#### Yuasa SWL3800FR Industrial VRLA Battery

Specifications

Nominal voltage (V) 12 10m rate Constant Power (Typ) to 9.6V at 20°C 4206

(W/Block)

10m rate Constant Power (Typ) to 1.6V/cell at 633

20°C (W/Cell)

20-hr rate Capacity to 10.5V at 20°C (Ah) 135.0 10-hr rate Capacity to 10.8V at 20°C (Ah) 124

**Dimensions** 

 Length (mm)
 350 (±3)

 Width (mm)
 173 (±2)

 Height (mm)
 272 (±2)

 Mass (kg)
 49.2

**Terminal Type** 

Threaded terminal - (M=Male or F=Female) M8 (F)
Torque (Nm) 6

**Operating Temperature Range** 

Storage (in fully charged condition)  $-20^{\circ}\text{C to } +50^{\circ}\text{C}$ Charge  $-15^{\circ}\text{C to } +50^{\circ}\text{C}$ Discharge  $-20^{\circ}\text{C to } +60^{\circ}\text{C}$ 

**Storage** 

Capacity loss per month at 20°C (% approx.)

**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 -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) 31

**Maximum Discharge Current** 

1 second (A) 1200 1 minute (A) 600

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 4.8

(mΩ)

Short-Circuit current - according to EN IEC 3000

60896-21 (A)

**Impedance** 

Measured at 1 kHz ( $m\Omega$ ) 3

**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.









