## Yuasa Technical Data Sheet

### Yuasa SWL2300FR Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 10-min rate Constant Power to 9.6V at 20°C (Watts 2300

Del Diock)

10-min rate Constant Power to 1.6V/cell at 20°C 383.33

(W/Cell)

20-hr rate Capacity to 10.5V at 20°C (Ah) 80.0 10-hr rate Capacity to 10.8V at 20°C (Ah) 78

**Dimensions** 

Mass (kg)

**Terminal Type** 

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

**Operating Temperature Range** 

Storage (in fully charged condition)  $-15^{\circ}$ C to  $+40^{\circ}$ C Charge  $-15^{\circ}$ C to  $+50^{\circ}$ C Discharge  $-15^{\circ}$ C to  $+50^{\circ}$ 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 ( $\pm$ 3%) Cyclic (or Boost) charge Voltage at 20°C (V)/Cell 2.42 ( $\pm$ 3%)

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

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Charge Current
Float charge current limit (A)

Cyclic (or Boost) charge current limit (A)

No limit
19.5

**Maximum Discharge Current** 

1 second (A) 520 1 minute (A) 240

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 7.71

(111)

Short-Circuit current - according to EN IEC 1857

60896-21 (A)

Impedance

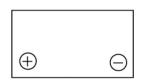
Measured at 1 kHz 5.5

**Design Life & Approvals** 

EUROBAT Classification: High Performance 10 to 12
Yuasa design life at 20°C (yrs) up to 10



Layout



### **3rd Party Cerfifications**

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.

