# Yuasa Technical Data Sheet

# Yuasa SWL3300FR Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 10m rate Constant Power (Typ) to 9.6V at 20°C 3300 (W/Block)

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

20°C (W/Cell)

10-br rate Capacity to 1 8V/Cell at 20°C (Ab)

102

550

10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 102 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) 110.2

**Dimensions** 

 Length (mm)
 350 (±3)

 Width (mm)
 168 (±2)

 Height (mm)
 225 (±1)

 Mass (kg)
 37.7

**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) 25.625

**Maximum Discharge Current** 

1 second (A) 1100 1 minute (A) 550

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 5.64

(mΩ)

Short-Circuit current - according to EN IEC 2547

60896-21 (A) **Impedance** 

Measured at 1 kHz (mΩ)

**Design Life & Approvals** 

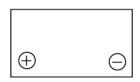
EUROBAT Classification: Long life 10 to 12 years Yuasa design life at 20°C (yrs) up to 10 years

3.5





# 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.







