# Yuasa Technical Data Sheet

# Yuasa SWL1850-6FR Industrial VRLA Battery

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

(W/Block)

20-hr rate Capacity to 10.5V at 20°C (Ah) 148.0 10-hr rate Capacity to 10.8V at 20°C (Ah) 132

**Dimensions** 

350 (±0.7) Length (mm) Width (mm) 166 (±0.5) Height (mm) 174 (±0.5) Mass (kg) 23.8

1344

**Terminal Type** 

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

**Operating Temperature Range** 

Storage (in fully charged condition) -20°C to +50°C -15°C to +50°C Charge -20°C to +60°C Discharge

**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 6.825 (±1%) Float charge voltage at 20°C (V)/Cell 2.275 (±1%)

Float Chg voltage tmp correction factor from std -3

20°C (mV)

Cyclic (or Boost) charge Voltage at 20°C (V)/Block 7.25 (±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) 33

**Maximum Discharge Current** 

1 second (A) 500 1 minute (A) 260

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21 2.96

Short-Circuit current - according to EN IEC

2408 60896-21 (A)

**Impedance** 

Measured at 1 kHz ( $m\Omega$ ) 1.8

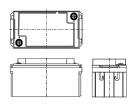
**Design Life & Approvals** 

**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.









