## Yuasa Technical Data Sheet

## Yuasa SWL1850-6FR Industrial VRLA Battery

**Specifications** 

Nominal voltage (V)

10m rate Constant Power (Typ) to 1.6V/cell at 384 (20min Rate)

20°C (W/Cell)

10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 132

**Dimensions** 

 Length (mm)
 350 (±2)

 Width (mm)
 166 (±1)

 Height (mm)
 174 (±2)

 Mass (kg)
 23.8

**Terminal Type** 

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

**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 6.825 ( $\pm$ 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 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

 $(m\Omega)$ 

Short-Circuit current - according to EN IEC 2408

60896-21 (A)

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

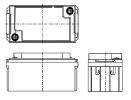
**Design Life & Approvals** 

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





## 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.









