# Yuasa Technical Data Sheet

#### Yuasa SWL2500EFR Industrial VRLA Battery

**Specifications** 

Nominal voltage (V) 12 10m rate Constant Power (Typ) to 9.6V at 20°C 2940

490

(W/Block)

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

20°C (W/Cell)

20-hr rate Capacity to 10.5V at 20°C (Ah) 93.6 10-hr rate Capacity to 10.8V at 20°C (Ah) 90

**Dimensions** 

 Length (mm)
  $305 (\pm 3)$  

 Width (mm)
  $168 (\pm 2)$  

 Height (mm)
  $224.5 (\pm 1)$  

 Mass (kg)
 33 

**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 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) 22.5

**Maximum Discharge Current** 

1 second (A) 1000 1 minute (A) 500

**Short-Circuit Current & Internal Resistance** 

Internal resistance - according to EN IEC 60896-21  $6.5\,$ 

 $(m\Omega)$ 

Short-Circuit current - according to EN IEC 2258

60896-21 (A)

Impedance

Measured at 1 kHz (m $\Omega$ )

**Design Life & Approvals** 

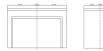
EUROBAT Classification: Long life 10 to 12 years Yuasa design life at 20°C (yrs) up to 10 years





#### 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.







