# Yuasa Technical Data Sheet

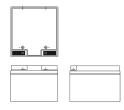
### Yuasa SWL750FR Industrial VRLA Battery

Specifications Nominal voltage (V)	12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	767
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	128
20-hr rate Capacity to 10.5V at 20°C (Ah) 10-hr rate Capacity to 10.8V at 20°C (Ah)	25.0 22.9
<b>Dimensions</b> Length (mm)	166 (±2)
Width (mm)	175 (±1)
Height (mm) Mass (kg)	125 (±2) 9.8
<b>Terminal Type</b> Threaded terminal - (M=Male or F=Female)	M5 (F)
Torque (Nm)	2.5
<b>Operating Temperature Range</b> Storage (in fully charged condition)	-20°C to +60°C
Charge Discharge	-15°C to +50°C -20°C to +60°C
Storage	20 0 10 000 0
Capacity loss per month at 20°C (% approx.)	3
<b>Case Material</b> Standard	ABS (UL94:V0)
<b>Charge Voltage</b> Float charge voltage at 20°C (V)/Block	13.65 (±1%)
Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std	2.275 (±1%) -3
20°C (mV)	-
Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	14.5 (±3%) 2.42 (±3%)
Cyclic Chg voltage tmp correction factor from std 20°C (mV)	-4
Charge Current	
Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 5.725
Maximum Discharge Current 1 second (A)	500
1 minute (A)	500 150
<b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21	20.47
(mΩ) Short-Circuit current - according to EN IEC	714
60896-21 (A)	/14
<b>Impedance</b> Measured at 1 kHz (mΩ)	8.5
Design Life & Approvals	0.0
EUROBAT Classification: Long life Yuasa design life at 20°C (yrs)	10 to 12 years up to 10 years
	ap to To 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.



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