# Yuasa Technical Data Sheet

## Yuasa SWL780V Industrial VRLA Battery

<b>Specifications</b> Nominal voltage (V) 10m rate Constant Power (Typ) to 9.6V at 20°C	12 815
(W/Block) 10m rate Constant Power (Typ) to 1.6V/cell at	130
20°C (W/Cell) 20-hr rate Capacity to 10.5V at 20°C (Ah) 10-hr rate Capacity to 10.8V at 20°C (Ah)	28.8 27
Dimensions	
Length (mm) Width (mm) Height (mm)	166 (±2) 125 (±1) 175 (±2)
Mass (kg) Terminal Type	10.3
Threaded terminal - (M=Male or F=Female) Torque (Nm)	M5 (F) 2.5
Operating Temperature Range	2006 to 16006
Storage (in fully charged condition) Charge	-20°C to +60°C -15°C to +50°C
Discharge	-20°C to +60°C
<b>Storage</b> Capacity loss per month at 20°C (% approx.)	3
Case Material Standard	ABS (UL94:HB)
FR version available	UL94:V0
<b>Charge Voltage</b> Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std	13.65 (±1%) 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 Cyclic Chg voltage tmp correction factor from std 20°C (mV)	14.5 (±3%) 2.42 (±3%) -4
Charge Current	
Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 6.125
Maximum Discharge Current	500
1 second (A) 1 minute (A)	500 150
<b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21	
-	18
(m $\Omega$ ) Short-Circuit current - according to EN IEC 60896-21 (A)	18 800
(m $\Omega$ ) Short-Circuit current - according to EN IEC	
(mΩ) Short-Circuit current - according to EN IEC 60896-21 (A) Impedance	800





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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Data Sheet generated on 23/03/2020 – E&OE

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