# Yuasa Technical Data Sheet

**Yuasa SWL4250FR Industrial VRLA Battery**




### Specifications

| | |
|---|---|
| Nominal voltage (V) | 12 |
| 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block) | 4266 |
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) | 711 |
| 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) | 140 |
| 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) | 150.0 |

### Dimensions

| | |
|---|---|
| Length (mm) | 341 (±3) |
| Width (mm) | 173 (±3) |
| Height (mm) | 281 (±3) |
| Mass (kg) | 49 |

### Terminal Type

| | |
|---|---|
| Threaded terminal - (M=Male or F=Female) | M8 (F) |
| Torque (Nm) | 11.9 |

### Operating Temperature Range

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

### Storage

| | |
|---|---|
| Capacity loss per month at 20°C (% approx.) | 3 |

### Case Material

| | |
|---|---|
| Standard | ABS (UL94:V0) |

### Charge Voltage

| | |
|---|---|
| Float charge voltage at 20°C (V)/Block | 13.65 (±1%) |
| Float charge voltage at 20°C (V)/Cell | 2.275 (±1%) |
| Float Chg voltage tmp correction factor from std 20°C (mV) | -3 |
| 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 20°C (mV) | -4 |

### Charge Current

| | |
|---|---|
| Float charge current limit (A) | No limit |
| Cyclic (or Boost) charge current limit (A) | 35 |

### Maximum Discharge Current

| | |
|---|---|
| 1 second (A) | 840 |
| 1 minute (A) | 420 |

### Short-Circuit Current & Internal Resistance

| | |
|---|---|
| Internal resistance - according to EN IEC 60896-21 (mΩ) | 4 |
| Short-Circuit current - according to EN IEC 60896-21 (A) | 3436 |

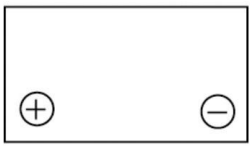
### Impedance

| | |
|---|---|
| Measured at 1 kHz (mΩ) | 2.7 |

### 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
UNDERWRITERS LABORATORIES Inc.

Cert. No.: FM 10626

## Safety

### Installation

Can be installed and operated in orientations up to 90° from the upright position.

### 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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