

# 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   |
| 20-hr rate Capacity to 10.5V at 20°C (Ah)                   | 150.0 |
| 10-hr rate Capacity to 10.8V at 20°C (Ah)                   | 140   |

### 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)                              | 6      |

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

### Impedance

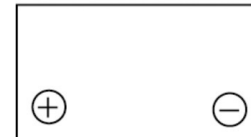
|                        |     |
|------------------------|-----|
| Measured at 1 kHz (mΩ) | 2.7 |
|------------------------|-----|

### Design Life & Approvals

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



### Layout



### 3rd Party Certifications

ISO9001 - Quality 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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