

# Yuasa Ficha Técnica

## Yuasa SWL1100FR Industrial VRLA Battery



### Especificaciones

|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| Voltaje nominal (V)                                                           | 12   |
| Evaluar a 10 minutos la potencia constante de 9,6V a 20°C (vatios por bloque) | 1202 |
| Evaluar a 10 minutos la potencia constante de 1,6V/celda a 20°C (W/celda)     | 200  |
| 10-hr de capacidad 1.8V/celda a 20°C (Ah)                                     | 39.6 |
| 20-hr de capacidad 1.75V/celda a 20°C (Ah)                                    | 40.6 |

### Dimensiones

|            |          |
|------------|----------|
| Largo (mm) | 197 (±2) |
| Ancho (mm) | 165 (±1) |
| Alto (mm)  | 170 (±2) |
| Peso (Kg)  | 14.5     |

### Tipo de terminal

|                          |        |
|--------------------------|--------|
| M= Masculino, F=Femenino | M5 (F) |
| Tuerca (Nm)              | 2.5    |

### Rango de temperatura de funcionamiento

|                                    |                |
|------------------------------------|----------------|
| Almacenamiento (en carga completa) | -20°C to +60°C |
| Carga                              | -15°C to +50°C |
| Descarga                           | -20°C to +60°C |

### Almacenamiento

|                                                 |   |
|-------------------------------------------------|---|
| Perdida de capacidad por mes a 20° C (% aprox.) | 3 |
|-------------------------------------------------|---|

### Material de la caja

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

### Voltaje de carga

|                                                                                                  |             |
|--------------------------------------------------------------------------------------------------|-------------|
| Carga flotante a 20°C (V)/Block                                                                  | 13.65 (±1%) |
| Carga flotante a 20°C (V)/Cell                                                                   | 2.275 (±1%) |
| Voltaje de carga en flotación factor de corrección de la temperatura desde estándar a 20° C (mV) | -3          |
| Voltaje a carga ciclica a 20°C (V)/Block                                                         | 14.5 (±3%)  |
| Voltaje a carga ciclica 20°C (V)/Cell                                                            | 2.42 (±3%)  |
| Carga de voltaje en ciclos factor de corrección de temperatura desde 20° (mV)                    | -4          |

### Corriente de carga

|                                               |          |
|-----------------------------------------------|----------|
| Límite de carga de corriente en flotación (A) | No limit |
| Carga ciclica. Límite                         | 9.9      |

### Máxima corriente de carga

|               |     |
|---------------|-----|
| 1 segundo (A) | 500 |
| 1 minuto (A)  | 200 |

### Corriente de corto circuito y resistencia interna

|                                                                       |      |
|-----------------------------------------------------------------------|------|
| Resistencia interna - en función del EN IEC 60896-21 (mΩ)             | 14.4 |
| Corriente de corto circuito - en función del EN IEC 1005 60896-21 (A) |      |

### Impedancia

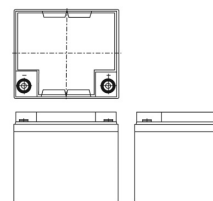
|                     |     |
|---------------------|-----|
| Medida a 1 kHz (mΩ) | 7.5 |
|---------------------|-----|

### Diseño de vida y certificados

|                                    |                |
|------------------------------------|----------------|
| Certificado EUROBAT: Larga vida    | 10 to 12 years |
| Diseño de vida Yuasa a 20°C (años) | up to 10 years |



### Diseño



### Certificados de otras empresas

ISO9001 - Sistemas de gestión de Calidad  
ISO14001 - Sistemas de gestión ambiental  
ISO45001 OHSAS Management Systems  
UNDERWRITERS LABORATORIES Inc.



## Seguridad

### Instalación

Puede ser instalado y trabajar en cualquier orientación excepto de manera invertida de forma permanente.

### Asas

Las baterías no deben estar sujetas por sus asas (si existen).

### Válvulas ventiladas

Cada celda está equipada con una válvula de liberación de presión baja para permitir que los gases escapen y luego vuelven a sellar.

### Liberación de gas

Baterías VRLA liberan gas hidrógeno que puede formar mezclas explosivas en el aire. No coloque dentro de un recipiente hermético.

### Reciclaje

Baterías de YUASA VRLA deben reciclar al final de la vida, de acuerdo con las leyes y regulaciones locales y nacionales.

Fecha de emisión: 25/04/2024 - E&EO

Fabricante de baterías líder mundial

[www.yuasaeurope.com](http://www.yuasaeurope.com)



# Yuasa Technical Data Sheet



## Yuasa SWL1100FR Industrial VRLA Battery

### Specifications

|                                                             |      |
|-------------------------------------------------------------|------|
| Nominal voltage (V)                                         | 12   |
| 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)     | 1202 |
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) | 200  |
| 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)               | 39.6 |
| 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)              | 40.6 |

### Dimensions

|             |          |
|-------------|----------|
| Length (mm) | 197 (±2) |
| Width (mm)  | 165 (±1) |
| Height (mm) | 170 (±2) |
| Mass (kg)   | 14.5     |

### Terminal Type

|                                          |        |
|------------------------------------------|--------|
| Threaded terminal - (M=Male or F=Female) | M5 (F) |
| Torque (Nm)                              | 2.5    |

### Operating Temperature Range

|                                      |                |
|--------------------------------------|----------------|
| Storage (in fully charged condition) | -20°C to +60°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) | 9.9      |

### Maximum Discharge Current

|              |     |
|--------------|-----|
| 1 second (A) | 500 |
| 1 minute (A) | 200 |

### Short-Circuit Current & Internal Resistance

|                                                          |      |
|----------------------------------------------------------|------|
| Internal resistance - according to EN IEC 60896-21 (mΩ)  | 14.4 |
| Short-Circuit current - according to EN IEC 60896-21 (A) | 1005 |

### Impedance

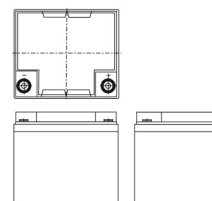
|                        |     |
|------------------------|-----|
| Measured at 1 kHz (mΩ) | 7.5 |
|------------------------|-----|

### 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.

