

# Yuasa Ficha Técnica

## Yuasa EN160-6 Industrial VRLA Battery



### Especificaciones

|                                                                           |     |
|---------------------------------------------------------------------------|-----|
| Voltaje nominal (V)                                                       | 6   |
| Evaluar a 10 minutos la potencia constante de 1,6V/celda a 20°C (W/celda) | 672 |
| 10-hr de capacidad 1.8V/celda a 20°C (Ah)                                 | 160 |

### Dimensiones

|            |          |
|------------|----------|
| Largo (mm) | 305 (±3) |
| Ancho (mm) | 210 (±2) |
| Alto (mm)  | 240 (±2) |
| Peso (Kg)  | 36.5     |

### Tipo de terminal

|                          |          |
|--------------------------|----------|
| M= Masculino, F=Femenino | M8 (F)   |
| Tuerca (Nm)              | 6 (±0.5) |

### Rango de temperatura de funcionamiento

|                                    |                |
|------------------------------------|----------------|
| Almacenamiento (en carga completa) | -20°C to +50°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                                                                  | 6.78 (±1%) |
| Carga flotante a 20°C (V)/Cell                                                                   | 2.26 (±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                                                         | 7.2 (±2%)  |
| Voltaje a carga ciclica 20°C (V)/Cell                                                            | 2.40 (±2%) |
| 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                         | 40.75    |

### Máxima corriente de carga

|               |      |
|---------------|------|
| 1 segundo (A) | 1500 |
| 1 minuto (A)  | 960  |

### Corriente de corto circuito y resistencia interna

|                                                                       |      |
|-----------------------------------------------------------------------|------|
| Resistencia interna - en función del EN IEC 60896-21 (mΩ)             | 2.15 |
| Corriente de corto circuito - en función del EN IEC 3235 60896-21 (A) |      |

### Impedancia

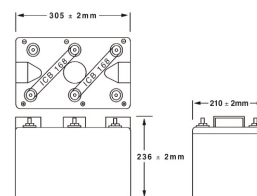
|                     |     |
|---------------------|-----|
| Medida a 1 kHz (mΩ) | 1.5 |
|---------------------|-----|

### Diseño de vida y certificados

|                                       |           |
|---------------------------------------|-----------|
| Clasificado Eurobat: Extra larga vida | 12+ years |
| Diseño de vida Yuasa a 20°C (años)    | 12 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: 26/04/2024 - E&EO



# Yuasa Technical Data Sheet



## Yuasa EN160-6 Industrial VRLA Battery

### Specifications

|                                                             |     |
|-------------------------------------------------------------|-----|
| Nominal voltage (V)                                         | 6   |
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) | 672 |
| 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)               | 160 |

### Dimensions

|             |          |
|-------------|----------|
| Length (mm) | 305 (±3) |
| Width (mm)  | 210 (±2) |
| Height (mm) | 240 (±2) |
| Mass (kg)   | 36.5     |

### Terminal Type

|                                          |          |
|------------------------------------------|----------|
| Threaded terminal - (M=Male or F=Female) | M8 (F)   |
| Torque (Nm)                              | 6 (±0.5) |

### 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                      | 6.78 (±1%) |
| Float charge voltage at 20°C (V)/Cell                       | 2.26 (±1%) |
| Float Chg voltage tmp correction factor from std 20°C (mV)  | -3         |
| Cyclic (or Boost) charge Voltage at 20°C (V)/Block          | 7.2 (±2%)  |
| Cyclic (or Boost) charge Voltage at 20°C (V)/Cell           | 2.40 (±2%) |
| 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) | 40.75    |

### Maximum Discharge Current

|              |      |
|--------------|------|
| 1 second (A) | 1500 |
| 1 minute (A) | 960  |

### Short-Circuit Current & Internal Resistance

|                                                          |      |
|----------------------------------------------------------|------|
| Internal resistance - according to EN IEC 60896-21 (mΩ)  | 2.15 |
| Short-Circuit current - according to EN IEC 60896-21 (A) | 3235 |

### Impedance

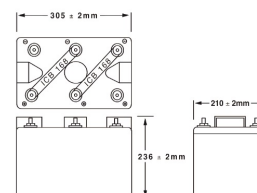
|                        |     |
|------------------------|-----|
| Measured at 1 kHz (mΩ) | 1.5 |
|------------------------|-----|

### Design Life & Approvals

|                                        |           |
|----------------------------------------|-----------|
| EUROBAT Classification: Very Long Life | 12+ years |
| Yuasa design life at 20°C (yrs)        | 12 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.

