

# Yuasa Ficha Técnica

## Yuasa NPW45-12 Industrial VRLA Battery



### Especificaciones

|   |      |
|---|------|
| Voltaje nominal (V)   | 12   |
| Evaluar a 10 minutos la potencia constante de 9,6V a 20°C (vatios por bloque) | 273  |
| Evaluar a 10 minutos la potencia constante de 1,6V/celda a 20°C (W/celda)     | 42   |
| 20-hr rate Capacity to 10.5V at 20°C (Ah)                                     | 7.54 |
| 10-hr rate Capacity to 10.8V at 20°C (Ah)                                     | 6.5  |

### Dimensiones

|                                 |           |
|---------------------------------|-----------|
| Largo (mm)                      | 151 (±1)  |
| Ancho (mm)                      | 65 (±1)   |
| Alto (mm)                       | 94 (±1)   |
| Alto incluyendo terminales (mm) | 97.5 (±2) |
| Peso (Kg)                       | 2.7       |

### Tipo de terminal

|        |      |
|--------|------|
| Faston | 6.35 |
|--------|------|

### Rango de temperatura de funcionamiento

|                                    |                |
|------------------------------------|----------------|
| Almacenamiento (en carga completa) | -15°C to +40°C |
| Carga                              | -0°C to +40°C  |
| Descarga                           | -15°C to +50°C |

### Almacenamiento

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

### Material de la caja

|                       |               |
|-----------------------|---------------|
| Standar               | ABS (UL94:HB) |
| Version disponible FR | 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 correccion de temperatura desde 20° (mV)                    | -4          |

### Corriente de carga

|   |          |
|---|----------|
| Limite de carga de corriente en flotación (A) | No limit |
| Carga ciclica. Limite                         | 2.125    |

### Máxima corriente de carga

|               |     |
|---------------|-----|
| 1 segundo (A) | 105 |
| 1 minuto (A)  | 42  |

### Impedancia

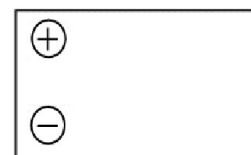
|                     |    |
|---------------------|----|
| Medida a 1 kHz (mΩ) | 24 |
|---------------------|----|

### Diseño de vida y certificados

|                                     |         |
|-------------------------------------|---------|
| Certificado EUROBAT: Venta estándar | 3 to 5  |
| Diseño de vida Yuasa a 20°C (años)  | up to 5 |



### Diseño



### Certificados de otras empresas

ISO9001 - Sistemas de gestión de Calidad  
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.

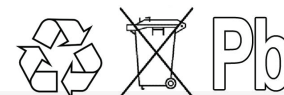
### Liberación de gas

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: 15/01/2020 - E&EO



# Yuasa Technical Data Sheet



## Yuasa NPW45-12 Industrial VRLA Battery

### Specifications

|   |      |
|---|------|
| Nominal voltage (V)   | 12   |
| 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)     | 273  |
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) | 42   |
| 20-hr rate Capacity to 10.5V at 20°C (Ah)                   | 7.54 |
| 10-hr rate Capacity to 10.8V at 20°C (Ah)                   | 6.5  |

### Dimensions

|                            |           |
|----------------------------|-----------|
| Length (mm)                | 151 (±1)  |
| Width (mm)                 | 65 (±1)   |
| Height (mm)                | 94 (±1)   |
| Height over terminals (mm) | 97.5 (±2) |
| Mass (kg)                  | 2.7       |

### Terminal Type

|  |      |
|--|------|
| FASTON - Quickfit / release (JST where stated) | 6.35 |
|--|------|

### Operating Temperature Range

|                                      |                |
|--------------------------------------|----------------|
| Storage (in fully charged condition) | -15°C to +40°C |
| Charge                               | -0°C to +40°C  |
| Discharge                            | -15°C to +50°C |

### Storage

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

### Case Material

|                      |               |
|----------------------|---------------|
| Standard             | ABS (UL94:HB) |
| FR version available | 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) | 2.125    |

### Maximum Discharge Current

|              |     |
|--------------|-----|
| 1 second (A) | 105 |
| 1 minute (A) | 42  |

### Impedance

|                        |    |
|------------------------|----|
| Measured at 1 kHz (mΩ) | 24 |
|------------------------|----|

### Design Life & Approvals

|   |         |
|---|---------|
| EUROBAT Classification: Standard Commercial | 3 to 5  |
| Yuasa design life at 20°C (yrs)             | up to 5 |



### 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.

