

# Yuasa Technical Data Sheet



## Yuasa REW45-12 Industrial VRLA Battery

### Specifications

|   |      |
|---|------|
| Nominal voltage (V)   | 12   |
| 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)     | 252  |
| 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)                   | 8    |
| 10-hr rate Capacity to 10.8V at 20°C (Ah)                   | 6.96 |

### Dimensions

|                            |             |
|----------------------------|-------------|
| Length (mm)                | 151 (±0.5)  |
| Width (mm)                 | 64 (±0.5)   |
| Height (mm)                | 94 (±0.5)   |
| Height over terminals (mm) | 97,5 (±0.5) |
| 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 +45°C |
| Charge                               | -15°C to +45°C |
| Discharge                            | -15°C to +45°C |

### Storage

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

### Case Material

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

### 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        |

### Maximum Discharge Current

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

### Impedance

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

### Design Life & Approvals

|   |          |
|---|----------|
| EUROBAT Classification: General Purpose | 6 to 9   |
| 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.

