# Yuasa Technical Data Sheet

# Yuasa REW45-12 Industrial VRLA Battery

| <b>Specifications</b><br>Nominal voltage (V)<br>10m rate Constant Power (Typ) to 9.6V at 20°C<br>(W/Block)  | 12<br>252  |
|---|--|
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)   | 42   |
| 20 C (W/Cell)<br>10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)<br>20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)  | 6.96<br>8  |
| <b>Dimensions</b><br>Length (mm)<br>Width (mm)<br>Height (mm)<br>Height over terminals (mm)<br>Mass (kg)  | 151 (±0.5)<br>64 (±0.5)<br>94 (±0.5)<br>97,5 (±0.5)<br>2.7 |
| <b>Terminal Type</b><br>FASTON - Quickfit / release (JST where stated)  | 6.35   |
| Operating Temperature Range   | 0.55   |
| Storage (in fully charged condition)<br>Charge<br>Discharge   | -15°C to +45°C<br>-15°C to +45°C<br>-15°C to +45°C         |
| <b>Storage</b><br>Capacity loss per month at 20°C (% approx.)   | 3  |
| <b>Case Material</b><br>Standard  | ABS (UL94:HB)  |
| <b>Charge Voltage</b><br>Float charge voltage at 20°C (V)/Block<br>Float charge voltage at 20°C (V)/Cell<br>Float Chg voltage tmp correction factor from std<br>20°C (mV) | 13.65 (±1%)<br>2.275 (±1%)<br>-3                           |
| Cyclic (or Boost) charge Voltage at 20°C (V)/Block<br>Cyclic (or Boost) charge Voltage at 20°C (V)/Cell<br>Cyclic Chg voltage tmp correction factor from std<br>20°C (mV) | 14.5 (±3%)<br>2.42 (±3%)<br>-4                             |
| <b>Charge Current</b><br>Float charge current limit (A)<br>Cyclic (or Boost) charge current limit (A)   | No limit<br>2  |
| <b>Maximum Discharge Current</b><br>1 second (A)<br>1 minute (A)  | 105<br>42  |
| <b>Impedance</b><br>Measured at 1 kHz (mΩ)  | 24   |
| <b>Design Life &amp; Approvals</b><br>EUROBAT Classification: General Purpose<br>Yuasa design life at 20°C (yrs)  | 6 to 9 years<br>up to 10 years                             |





Layout

| $\oplus$ |  |
|----------|--|
| Θ        |  |

### **3rd Party Certifications**

ISO9001 - Quality Management Systems UNDERWRITERS LABORATORIES Inc.



# Safety

#### Installation

Can be installed and operated in orientations up to  $90^{\circ}$  from the upright position.

# 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.



The world's leading battery manufacturer

Data Sheet generated on 28/02/2025 - E&OE

www.yuasaeurope.com

