

# Yuasa Technical Data Sheet

## Yuasa EN80-6 Industrial VRLA Battery



### Specifications

|   |        |
|---|--------|
| Nominal voltage (V)   | 6      |
| 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)     | 1008.3 |
| 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) | 336.1  |
| 10-hr rate Capacity to 10.8V at 20°C (Ah)                   | 81     |

### Dimensions

|             |            |
|-------------|------------|
| Length (mm) | 200 (±0.5) |
| Width (mm)  | 208 (±1)   |
| Height (mm) | 238 (±1)   |
| Mass (kg)   | 23         |

### Terminal Type

|  |          |
|--|----------|
| Threaded terminal - (M=Male or F=Female) | M8 (M)   |
| 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) | 20.25    |

### Maximum Discharge Current

|              |     |
|--------------|-----|
| 1 second (A) | 800 |
| 1 minute (A) | 480 |

### Short-Circuit Current & Internal Resistance

|  |      |
|--|------|
| Internal resistance - according to EN IEC 60896-21 (mΩ)  | 3.2  |
| Short-Circuit current - according to EN IEC 60896-21 (A) | 2222 |

### Impedance

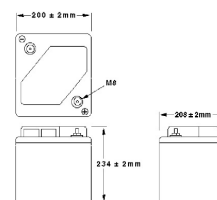
|                        |   |
|------------------------|---|
| Measured at 1 kHz (mΩ) | 2 |
|------------------------|---|

### Design Life & Approvals

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



### Layout



### 3rd Party Certifications

- ISO9001 - Quality Management Systems
- ISO14001 - Environmental Management Systems
- EN 18001 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.

