

# Yuasa Technical Data Sheet



## Yuasa FXH100-12IFR Industrial VRLA Battery

### Specifications

|   |       |
|---|-------|
| Nominal voltage (V)                       | 12    |
| 20-hr rate Capacity to 10.5V at 20°C (Ah) | 101.2 |
| 10-hr rate Capacity to 10.8V at 20°C (Ah) | 98.4  |

### Dimensions

|             |      |
|-------------|------|
| Length (mm) | 508  |
| Width (mm)  | 106  |
| Height (mm) | 236  |
| Mass (kg)   | 34.9 |

### Terminal Type

|  |         |
|--|---------|
| Threaded terminal - (M=Male or F=Female) | M6 (F)  |
| Torque (Nm)                              | 3.9-5.4 |

### 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: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          | 14.52 (±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)             | 10.12 |
| Cyclic (or Boost) charge current limit (A) | 10.12 |

### Maximum Discharge Current

|              |     |
|--------------|-----|
| 1 second (A) | 540 |
| 1 minute (A) | 279 |

### Impedance

|                        |     |
|------------------------|-----|
| Measured at 1 kHz (mΩ) | 3.5 |
|------------------------|-----|

### Design Life & Approvals

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

## 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.

