

# Yuasa Technical Data Sheet



## Yuasa FXH190-12IFR Industrial VRLA Battery

### Specifications

Nominal voltage (V)	12
10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)	196
20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)	212

### Dimensions

Length (mm)	604
Width (mm)	123
Height (mm)	320
Mass (kg)	67

### Terminal Type

Threaded terminal - (M=Male or F=Female)	M8 (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
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### Case Material

Standard	ABS (UL94:V0)
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### 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)	21
Cyclic (or Boost) charge current limit (A)	21

### Maximum Discharge Current

1 second (A)	1000
1 minute (A)	484

### Impedance

Measured at 1 kHz (mΩ)	2.5
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### Design Life & Approvals

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

## Safety

### Installation

Can be installed and operated in orientations up to 90° 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.

