

# Yuasa Technical Data Sheet



## Yuasa NP1.2-12FR Industrial VRLA Battery

### Specifications

|                                                |     |
|------------------------------------------------|-----|
| Nominal voltage (V)                            | 12  |
| 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)  | 1.1 |
| 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) | 1.2 |

### Dimensions

|                            |           |
|----------------------------|-----------|
| Length (mm)                | 97 (±1)   |
| Width (mm)                 | 48 (±1)   |
| Height over terminals (mm) | 54.5 (±2) |
| Mass (kg)                  | 0.58      |

### Terminal Type

|                                                |      |
|------------------------------------------------|------|
| FASTON - Quickfit / release (JST where stated) | 4.75 |
|------------------------------------------------|------|

### Operating Temperature Range

|                                      |                |
|--------------------------------------|----------------|
| Storage (in fully charged condition) | -20°C to +60°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                      | 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) | 0.3      |

### Maximum Discharge Current

|              |    |
|--------------|----|
| 1 second (A) | 36 |
| 1 minute (A) | 12 |

### Impedance

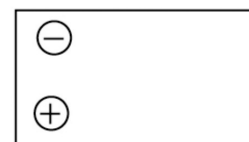
|                        |     |
|------------------------|-----|
| Measured at 1 kHz (mΩ) | 110 |
|------------------------|-----|

### Design Life & Approvals

|                                             |              |
|---------------------------------------------|--------------|
| EUROBAT Classification: Standard Commercial | 3 to 5 years |
| Yuasa design life at 20°C (yrs)             | up to 5      |



### Layout



### 3rd Party Certifications

ISO9001 - Quality Management Systems



## 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.

