

# Yuasa Technical Data Sheet

## Yuasa NP2.3-12 Industrial VRLA Battery



### Specifications

Nominal voltage (V)	12
20-hr rate Capacity to 10.5V at 20°C (Ah)	2.3
10-hr rate Capacity to 10.8V at 20°C (Ah)	2.1

### Dimensions

Length (mm)	178 ( $\pm 1$ )
Width (mm)	34 ( $\pm 1$ )
Height over terminals (mm)	64 ( $\pm 2$ )
Mass (kg)	0.95

### 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:HB)
FR version available	UL94:V0

### Charge Voltage

Float charge voltage at 20°C (V)/Block	13.65 ( $\pm 1\%$ )
Float charge voltage at 20°C (V)/Cell	2.275 ( $\pm 1\%$ )
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block	14.5 ( $\pm 3\%$ )
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	2.42 ( $\pm 3\%$ )
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)	0.575

### Maximum Discharge Current

1 second (A)	69
1 minute (A)	23

### Impedance

Measured at 1 kHz (mΩ)	65
------------------------	----

### Design Life & Approvals

EUROBAT Classification: Standard Commercial	3 to 5
Yuasa design life at 20°C (yrs)	up to 5
VdS (Germany)	VdS No: G 101139



### Layout



### 3rd Party Certifications

ISO9001 - Quality 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.

Data Sheet generated on 08/02/2020 – E&OE

