

# Yuasa Technical Data Sheet



## Yuasa NPW45-12 Industrial VRLA Battery

### Specifications

Nominal voltage (V)	12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	273
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	42
20-hr rate Capacity to 10.5V at 20°C (Ah)	7.5
10-hr rate Capacity to 10.8V at 20°C (Ah)	6.6

### Dimensions

Length (mm)	151 (±1)
Width (mm)	65 (±1)
Height (mm)	94 (±1)
Height over terminals (mm)	97.5 (±2)
Mass (kg)	2.7

### Terminal Type

FASTON - Quickfit / release (JST where stated)	6.35
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### Operating Temperature Range

Storage (in fully charged condition)	-15°C to +40°C
Charge	-0°C to +40°C
Discharge	-15°C to +50°C

### Storage

Capacity loss per month at 20°C (% approx.)	3
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### Case Material

Standard	ABS (UL94:HB)
FR version available	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)	2.125

### Maximum Discharge Current

1 second (A)	105
1 minute (A)	42

### Impedance

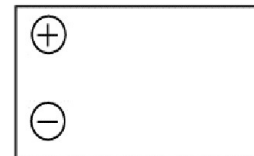
Measured at 1 kHz (mΩ)	24
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### Design Life & Approvals

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.

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