# 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 273 (W/Block)

42

10m rate Constant Power (Typ) to 1.6V/cell at

20°C (W/Cell)
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) $151 (\pm 1)$ Width (mm) $65 (\pm 1)$ Height (mm) $94 (\pm 1)$ Height over terminals (mm) $97.5 (\pm 2)$ Mass (kg)2.7

**Terminal Type** 

FASTON - Quickfit / release (JST where stated) 6.35

**Operating Temperature Range** 

Storage (in fully charged condition)  $-15^{\circ}\text{C to } +40^{\circ}\text{C}$ Charge  $-0^{\circ}\text{C to } +40^{\circ}\text{C}$ Discharge  $-15^{\circ}\text{C to } +50^{\circ}\text{C}$ 

**Storage** 

Capacity loss per month at 20°C (% approx.)

**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 -3

20°C (mV)

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 -4

20°C (mV)

**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 (m $\Omega$ ) 24

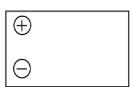
**Design Life & Approvals** 

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 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.







