# Yuasa Technical Data Sheet

## Yuasa NPW45-12FR Industrial VRLA Battery

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ΝΙ.		. 1	L

Nominal voltage (V) 10m rate Constant Power (Typ) to 9.6V at 20°C 273 (W/Block) 10m rate Constant Power (Typ) to 1.6V/cell at 42

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

**Terminal Type** 

FASTON - Quickfit / release (JST where stated) 6.35

**Operating Temperature Range** 

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

Cyclic (or Boost) charge Voltage at 20°C (V)/Block 14.5 (±3%) 2.42 (±3%)

Cyclic (or Boost) charge Voltage at 20°C (V)/Cell 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** 

24 Measured at 1 kHz (m $\Omega$ )

**Design Life & Approvals** 

**EUROBAT Classification: Standard Commercial** 3 to 5 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.









