Yuasa Technical Data Sheet

Yuasa NPW45-12FR Industrial VRLA Battery

Specifications Nominal voltage (V) 10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	12 273
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) 10-hr rate Capacity to 10.8V at 20°C (Ah)	7.5 6.6
Dimensions Length (mm) Width (mm) Height (mm) Height over terminals (mm) Mass (kg)	151 (±1) 65 (±1) 94 (±1) 97.5 (±2) 2.7
Terminal Type FASTON - Quickfit / release (JST where stated)	6.35
Operating Temperature Range Storage (in fully charged condition) Charge Discharge	-15°C to +40°C -0°C to +40°C -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 Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV)	13.65 (±1%) 2.275 (±1%) -3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV)	2.42 (±3%)
Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 2.125
Maximum Discharge Current 1 second (A) 1 minute (A)	105 42
Impedance Measured at 1 kHz (mΩ)	24
Design Life & Approvals EUROBAT Classification: Standard Commercial Yuasa design life at 20°C (yrs)	3 to 5 years 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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