Yuasa Technical Data Sheet

Yuasa NPL78-12IFR Industrial VRLA Battery

Specifications

Nominal voltage (V) 12 20-hr rate Capacity to 10.5V at 20°C (Ah) 78 10-hr rate Capacity to 10.8V at 20°C (Ah) 68.64

Dimensions

 Length (mm)
 $380 (\pm 0.7)$

 Width (mm)
 $166 (\pm 0.5)$

 Height (mm)
 $174 (\pm 0.5)$

 Mass (kg)
 27.5

Terminal Type

Threaded terminal - (M=Male or F=Female) M8 (F)
Torque (Nm) 6

Operating Temperature Range

Storage (in fully charged condition) $-20^{\circ}\text{C to } +50^{\circ}\text{C}$ Charge $-15^{\circ}\text{C to } +50^{\circ}\text{C}$ Discharge $-20^{\circ}\text{C to } +60^{\circ}\text{C}$

Storage

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

Case Material

Standard ABS (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)

Cyclic (or Boost) charge current limit (A)

No limit
19.5

Maximum Discharge Current

1 second (A) 800 1 minute (A) 500

Impedance

Measured at 1 kHz (m Ω) <5

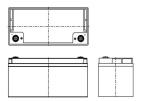
Design Life & Approvals

EUROBAT Classification: Long life 10 to 12 Yuasa design life at 20°C (yrs) up to 10





Layout



3rd Party Cerfifications

ISO9001 - Quality Management Systems ISO14001 - Environmental Management Systems EN 18001 OHSAS 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.







