Yuasa Technical Data Sheet

Yuasa NPL78-12IFR Industrial VRLA Battery **Specifications** Nominal voltage (V) 12 10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 72.1 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah) 78 **Dimensions** Length (mm) 380 (±2) Width (mm) 166 (±1) Height (mm) 174 (±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°C to +50°C -15°C to +50°C Charge -20°C to +60°C Discharge 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 -3 20°C (mV) 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 -4 20°C (mV) **Charge Current** Float charge current limit (A) No limit 19.5 Cyclic (or Boost) charge current limit (A) **Maximum Discharge Current** 800 1 second (A) 500 1 minute (A) Impedance Measured at 1 kHz (m Ω) <5

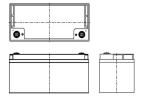
Design Life & Approvals

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





Layout



3rd Party Certifications

ISO9001 - Quality Management Systems ISO14001 - Environmental Management Systems ISO45001 OHSAS Management Systems UNDERWRITERS LABORATORIES Inc.



Safety

Installation

Can be installed and operated in orientations up to 90° from the upright position.

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.



e.com

Data Sheet generated on 13/03/2025 – E&OE

The world's leading battery manufacturer

www.yuasaeurope.com