## Yuasa Technical Data Sheet

## Yuasa NPL24-12I Industrial VRLA Battery

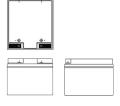
Specifications	
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Nominal voltage (V) 20-hr rate Capacity to 10.5V at 20°C (Ah) 10-hr rate Capacity to 10.8V at 20°C (Ah)	12 24 22.2
<b>Dimensions</b> Length (mm) Width (mm) Height (mm) Mass (kg)	166 (±2) 175 (±1) 125 (±0.5) 9.8
<b>Terminal Type</b> Threaded terminal - (M=Male or F=Female) Torque (Nm)	M5 (F) 2.5
<b>Operating Temperature Range</b> Storage (in fully charged condition) Charge Discharge	-20°C to +60°C -15°C to +50°C -20°C to +60°C
<b>Storage</b> Capacity loss per month at 20°C (% approx.)	3
<b>Case Material</b> Standard FR version available	ABS (UL94:HB) UL94:V0
<b>Charge Voltage</b> 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)	14.5 (±3%) 2.42 (±3%) -4
<b>Charge Current</b> Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 6
<b>Maximum Discharge Current</b> 1 second (A) 1 minute (A)	500 150
<b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21	22.19
(m $\Omega$ ) Short-Circuit current - according to EN IEC 60896-21 (A)	656
<b>Impedance</b> Measured at 1 kHz (mΩ)	9.5
<b>Design Life &amp; Approvals</b> EUROBAT Classification: Long life Yuasa design life at 20°C (yrs)	10 to 12 up to 10





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 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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