## Yuasa Technical Data Sheet

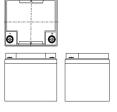
## Yuasa NPL38-12I Industrial VRLA Battery

<b>Specifications</b> 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 38 33.44
Dimensions Length (mm) Width (mm) Height (mm) Mass (kg)	197 (±0.5) 165 (±0.5) 170 (±0.5) 14
<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 9.5
Maximum Discharge Current 1 second (A) 1 minute (A)	500 200
<b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21	18.22
(m $\Omega$ ) Short-Circuit current - according to EN IEC 60896-21 (A)	804
<b>Impedance</b> Measured at 1 kHz (mΩ)	7.5
<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 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.



Data Sheet generated on 13/06/2018 - E&OE



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