

Yuasa Technical Data Sheet

Yuasa NPC38-12I 12V 38Ah - Yuasa NPC series cyclic AGM VRLA battery

Specifications

Nominal Voltage (V)	12 V
10m rate Constant Power (Typ) to 9.6V at 20°C (/Block)	819.12
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	136.52
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	38
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	35.2

Dimensions

Length (mm)	197 (±2)
Width (mm)	165 (±1)
Height (mm)	170 (±0.5)
Weight (kg)	14.2

Terminal Type

Terminal Type	M5 (F)
Torque (Nm)	2.5

Operating Temperature Range

Storage (in fully charged condition)	-20°C to +60°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C

Storage

Capacity loss per month at 20°C (% approx.)	3
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Case Material

Case Material	ABS (UL94:HB)
Standard or FR Case	Standard

Charge Voltage

Float charge voltage at 20°C /Block (±1%)	13.65
Float charge voltage at 20°C /Cell (±1%)	2.275
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V) /Block (±3%)	14.5
Cyclic (or Boost) charge Voltage at 20°C (V) /Cell (±3%)	2.42
Cyclic Chg voltage tmp correction factor from std 20°C (mV)	-4

Charge Current

Float charge current limit (A)	9.5
Cyclic (or Boost) charge current limit (A)	9.5

Maximum Discharge Current

Maximum discharge current 1s (A)	500
Maximum discharge current 1m (A)	380

Short-Circuit Current & Internal Resistance

Short-Circuit current - according to EN IEC 60896-21 (A)	500
Internal resistance (mΩ) measured at 1 kHz	8.8

Cyclic Life Data

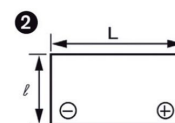
100% DOD down to 80% capacity	300
75% DOD down to 80% capacity	500
50% DOD down to 80% capacity	600
25% DOD down to 80% capacity	1400

Design Life & Approvals

EUROBAT Classification	Not classified
Yuasa design life at 20°C (yrs)	Up to 5 years



Layout



Certifications

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



Cert. No: FM 10626



Cert. No: EM5 55229



Certificate No: OHS 532991



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.



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