Yuasa Technical Data Sheet

Yuasa NP24-12I 12V 24Ah - Yuasa NP series standby & cyclic AGM VRLA battery

Specifications

Nominal Voltage (V)	12 V
10m rate Constant Power (Typ) to 9.6V at 20°C (/Block)	517.32
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	86.22
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	24
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	22.3

Dimensions

Length (mm)	166 (±1)
Width (mm)	175 (±1)
Height (mm)	125 (±2)
Weight (kg)	8.1

Terminal Type

Terminal Type	M5 (F)
Torque (Nm)	2.45

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

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)	6
Cyclic (or Boost) charge current limit (A)	6

Maximum Discharge Current

Maximum discharge current 1s (A)	500
Maximum discharge current 1m (A)	150

Short-Circuit Current & Internal Resistance

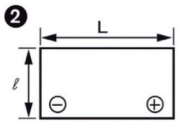
Short-Circuit current - according to EN IEC 60896-21 (A)	500
Internal resistance (mΩ) measured at 1 kHz	9.5

Design Life & Approvals

EUROBAT Classification	Commercial standard: 3 to 5 years
Yuasa design life at 20°C (yrs)	Up to 5 years
VdS (Germany)	VdS_No:_G_182026



Layout



Certifications

ISO 9001 Quality Management System
ISO 14001 Environmental Management System
ISO 45001 Occupational Health & Safety System
UNDERWRITERS LABORATORIES Inc.

Cert. No: FM 10626 Cert. No: EMS 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.