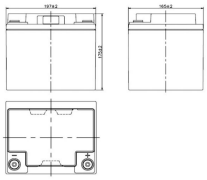
Yuasa Technical Data Sheet

Yuasa REC50-12I 12V 50Ah - Yuasa REC series cyclic AGM VRLA battery

Specifications	
Nominal Voltage (V)	12 V
10m rate Constant Power (Typ) to 9.6V at 20°C (/Block)	1276.1905
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	212.6984
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	50
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	40
Dimensions	
Length (mm)	197 (±2)
Width (mm)	165 (±2)
Height (mm)	175 (±2)
Weight (kg)	15.3
Terminal Type	
Terminal Type	M5 (F)
Torque (Nm)	2-3
Operating Temperature Range	
Storage (in fully charged condition)	-15°C to +45°C
Charge	-15°C to +45°C
Discharge	-15°C to +45°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%)	14.52
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)	12.5
Cyclic (or Boost) charge current limit (A)	12.5
Maximum Discharge Current	
Maximum discharge current 1s (A)	400
Maximum discharge current 1m (A)	185
Short-Circuit Current & Internal Resistance	
Internal resistance (mΩ) measured at 1 kHz	5.7
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 10 years



Layout



Certifications

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.