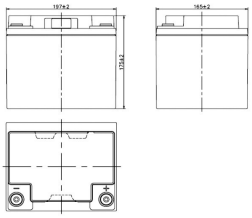
Yuasa Technical Data Sheet

Yuasa REC50-12 Industrial VRLA Battery

Specifications	
Nominal voltage (V)	12
20-hr rate Capacity to 10.5V at 20°C (Ah)	50
10-hr rate Capacity to 10.8V at 20°C (Ah)	40
Dimensions	
Length (mm)	197 (±2)
Width (mm)	165 (±2)
Height (mm)	175 (±2)
Mass (kg)	15.3
Terminal Type	
Threaded terminal - (M=Male or F=Female)	M5 (F)
Torque (Nm)	2-3Nm
Operating Temperature Range	
Storage (in fully charged condition)	-15°C to +50°C
Charge	-0°C to +40°C
Discharge	-15°C to +40°C
Storage	
Capacity loss per month at 20°C (% approx.)	3
Case Material	
Standard	ABS (UL94:HB)
Charge Voltage	
Float charge voltage at 20°C (V)/Block	13.65 (±1%)
Float charge voltage at 20°C (V)/Cell	2.275 (±1%)
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block	14.52 (±3%)
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	2.42 (±3%)
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	
1 second (A)	400
1 minute (A)	185
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
Impedance	
Measured at 1 kHz (mΩ)	5.7
Design Life & Approvals	
EUROBAT Classification: General Purpose	6 to 9
Yuasa design life at 20°C (yrs)	7



Layout



3rd Party Cerfifications

ISO9001 - Quality Management Systems
UNDERWRITERS LABORATORIES Inc.

Cert. No.: FM 10626

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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