Yuasa Technical Data Sheet

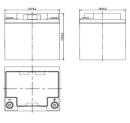
Yuasa REC50-12 Industrial VRLA Battery

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Specifications 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 50 40
Dimensions Length (mm) Width (mm) Height (mm) Mass (kg)	197 (±2) 165 (±2) 175 (±2) 15.3
Terminal Type Threaded terminal - (M=Male or F=Female) Torque (Nm)	M5 (F) 2-3Nm
Operating Temperature Range Storage (in fully charged condition) Charge Discharge	-15°C to +50°C -0°C to +40°C -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 Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) 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)	13.65 (±1%) 2.275 (±1%) -3 14.52 (±3%) 2.42 (±3%)
Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	12.5 12.5
Maximum Discharge Current 1 second (A) 1 minute (A)	400 185
Cyclic Life Data 100% DOD down to 80% capacity 75% DOD down to 80% capacity 50% DOD down to 80% capacity 25% DOD down to 80% capacity	300 500 600 1400
Impedance Measured at 1 kHz (mΩ)	5.7
Design Life & Approvals EUROBAT Classification: General Purpose Yuasa design life at 20°C (yrs)	6 to 9 7





Layout



3rd Party Cerfifications

ISO9001 - Quality 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.



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