Yuasa Technical Data Sheet

Yuasa REC50-12I Industrial VRLA Battery

Specifications
Nominal voltage (V)	12
10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)	40
20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)	50

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 +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
Standard	ABS (UL94:HB)
FR version available	UL94:V0

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
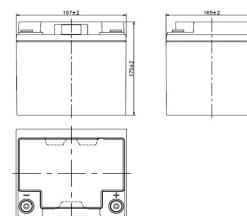|	
1 second (A)	400
1 minute (A)	185

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

Layout

3rd Party Certifications
ISO9001 - Quality Management Systems
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.