

# Yuasa Technical Data Sheet



## Yuasa REC50-12I 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
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### 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

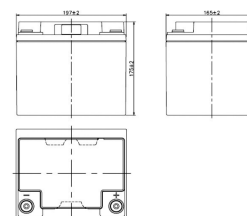
100% DOD down to 80% capacity	300
75% DOD down to 80% capacity	500
50% DOD down to 80% capacity	600
25% DOD down to 80% capacity	1400

### Impedance

Measured at 1 kHz (mΩ)	5.7
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### Layout



### 3rd Party Certifications

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.

