

# Yuasa Technical Data Sheet

## Yuasa REC36-12I 12V 36Ah - 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)	952.381
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	158.7302
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	36
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	32

### Dimensions

Length (mm)	196 (±2)
Width (mm)	130 (±2)
Height (mm)	158 (±3)
Weight (kg)	11.2

### 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)	9
Cyclic (or Boost) charge current limit (A)	9

### Maximum Discharge Current

Maximum discharge current 1s (A)	360
Maximum discharge current 1m (A)	140

### Short-Circuit Current & Internal Resistance

Internal resistance (mΩ) measured at 1 kHz	8.7
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### Cyclic Life Data

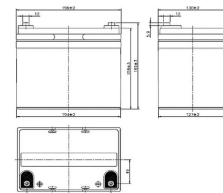
100% DOD down to 80% capacity	300
75% DOD down to 80% capacity	500
50% DOD down to 80% capacity	600
25% DOD down to 80% capacity	1400

### Design Life & Approvals

EUROBAT Classification	Not classified
Eurobat Life	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.



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