

# Yuasa Technical Data Sheet



## Yuasa EN480-2 Industrial VRLA Battery

### Specifications

Nominal voltage (V)	2
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	2016.7
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	2016.7
10-hr rate Capacity to 10.8V at 20°C (Ah)	488

### Dimensions

Length (mm)	305 (±1)
Width (mm)	210 (±1)
Height (mm)	240 (±1)
Mass (kg)	35

### Terminal Type

Threaded terminal - (M=Male or F=Female)	M8 (F)
Torque (Nm)	6 (±0.5)

### Operating Temperature Range

Storage (in fully charged condition)	-20°C to +50°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C

### Storage

Capacity loss per month at 20°C (% approx.)	3
---	---

### Case Material

Standard	ABS (UL94:V0)
----------	---------------

### Charge Voltage

Float charge voltage at 20°C (V)/Block	2.26 (±1%)
Float charge voltage at 20°C (V)/Cell	2.26 (±1%)
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block	2.40 (±2%)
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	2.40 (±2%)
Cyclic Chg voltage tmp correction factor from std 20°C (mV)	-4

### Charge Current

Float charge current limit (A)	No limit
Cyclic (or Boost) charge current limit (A)	122

### Maximum Discharge Current

1 second (A)	4500
1 minute (A)	2880

### Short-Circuit Current & Internal Resistance

Internal resistance - according to EN IEC 60896-21 (mΩ)	1.71
Short-Circuit current - according to EN IEC 60896-21 (A)	4157

### Impedance

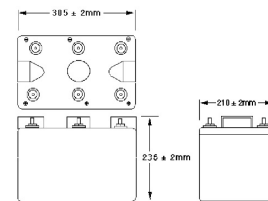
Measured at 1 kHz (mΩ)	0.5 (single cell)
------------------------	-------------------

### Design Life & Approvals

EUROBAT Classification: Very Long Life	12+
Yuasa design life at 20°C (yrs)	12



### Layout



### 3rd Party Certifications

ISO9001 - Quality Management Systems  
ISO14001 - Environmental Management Systems  
EN 18001 OHSAS 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.

