# Yuasa Technical Data Sheet

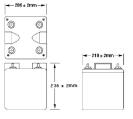
### Yuasa EN160-4 Industrial VRLA Battery

<b>Specifications</b> Nominal voltage (V) 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	4 672
10-hr rate Capacity to 1.8V/Cell at 20°C (Ah)	163
Dimensions Length (mm) Width (mm) Height (mm) Mass (kg)	206 (±3) 210 (±2) 240 (±2) 25.6
<b>Terminal Type</b> Threaded terminal - (M=Male or F=Female) Torque (Nm)	M8 (F) 6 (±0.5)
<b>Operating Temperature Range</b> Storage (in fully charged condition) Charge Discharge	-20°C to +50°C -15°C to +50°C -20°C to +60°C
<b>Storage</b> Capacity loss per month at 20°C (% approx.)	3
<b>Case Material</b> Standard	ABS (UL94:V0)
<b>Charge Voltage</b> 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)	4.52 (±1%) 2.26 (±1%) -3
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)	4.8 (±2%) 2.40 (±2%) -4
<b>Charge Current</b> Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	No limit 40.75
<b>Maximum Discharge Current</b> 1 second (A) 1 minute (A)	1500 960
<b>Short-Circuit Current &amp; Internal Resistance</b> Internal resistance - according to EN IEC 60896-21 (mΩ)	1.81
Short-Circuit current - according to EN IEC 60896-21 (A)	3009
<b>Impedance</b> Measured at 1 kHz (mΩ)	1.2
<b>Design Life &amp; Approvals</b> EUROBAT Classification: Very Long Life Yuasa design life at 20°C (yrs)	12+ years 12 years





Layout



## **3rd Party Certifications**

ISO9001 - Quality Management Systems ISO14001 - Environmental Management Systems ISO45001 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.



YUAS

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