

Yuasa Endurance Series VRLA Battery, 10 Years Design Life

The Yuasa 'Endurance' range of sealed Valve Regulated Lead Acid (VRLA) batteries use an advanced gas recombination technology and advanced sealed construction to provide ten years design life. The Yuasa EN Series requires minimal maintenance and there is no need for electrolyte top-up.

- Fully compliant with BS6290.4
- Flame retardant plastic containers and lids (oxygen index 30)
- Welded lid/container
- Sealed construction with relief venting system
- Electrolyte suspension system (AGM)
- No equalizing charge required

General Performance

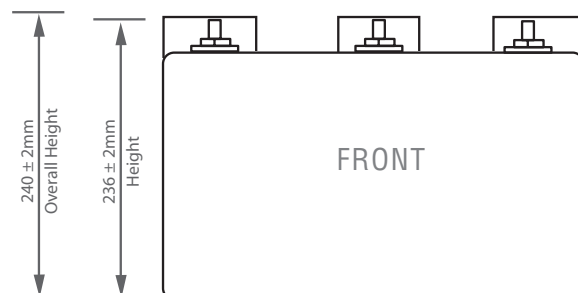
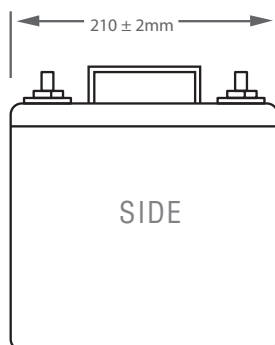
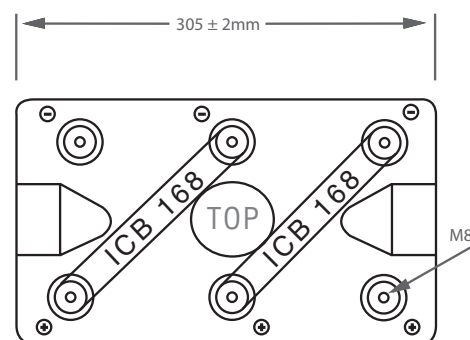
Battery	EN160-6	
Application	Floating	
Design Life	10 Years	
Nominal Capacity	160Ah	
Actual Capacity at 25°C	1 hour rate to 1.70V	112Ah
	3 hour rate to 1.70V	139Ah
	10 hour rate to 1.85V	160Ah

Electrolyte

Fully charge density at 25°C	1.280
Density Range	1.270-1.290
Gelled/Absorbed	Absorbed
Mounting Orientation	Horizontal/Vertical

Plates

Positive Plates:	
Number/cell	8
Type	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	4.0mm
Negative Plates:	
Number/cell	9
Type	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	2.8mm



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Physical Properties

Separators	
Type	Glass Mat
Is glass fibre included?	Yes
Thickness	1.7mm
Container & Cover Materials	
Lid Material, Colour	Acrylonitrile Butadiene Styrene ABS/ Grey
Container Material, Colour	Acrylonitrile Butadiene Styrene ABS/ Grey
Flame Retardant	Yes (Oxygen Index 30)
Safety Vent Operational Pressure	20kPa
Dimensions:	
Overall Width	305mm ± 2
Depth	210mm ± 2
Height	236mm ± 2
Overall Height	240mm ± 2
Battery Weight (kg)	
Total Weight (wet)	35kg

Electrical Properties

Self Discharge Rate @ 25°C	<3% per month		
Internal Resistance (mOHMS)	1.2mΩ		
Normal Charge (Amperes)	16A		
Max. Charge (Amperes)	16A		
Volts End of Charge	2.260Vpc @ 20°C		
	20°C	25°C	30°C
Float Voltage (Vpc) pure floating applications	2.260Vpc	2.250Vpc	2.230Vpc
Float Current (mA)	<160mA	<160mA	<160mA
Initial Short circuit current (A)	4800A		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		

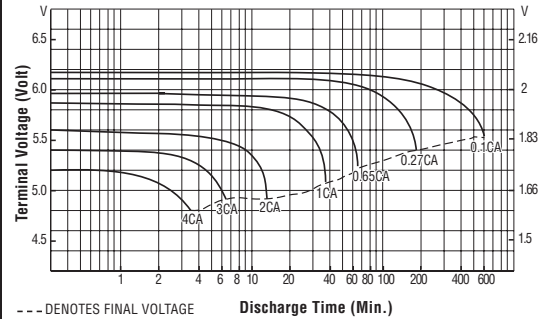
Torque Setting

Terminal Torque Setting	6.1 N.m.
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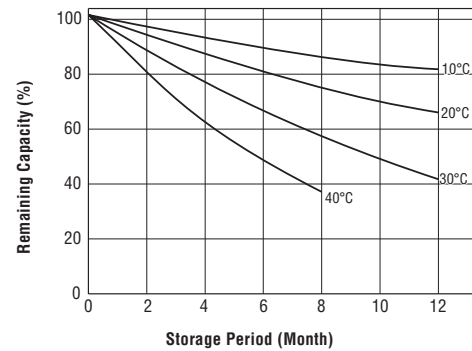
Compliant Standard

Battery Standard	BS6290 Part 4
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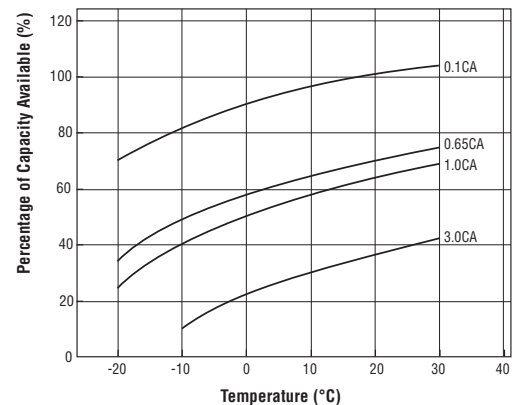
Discharge Characteristic Curve at 20°C



Self Discharge Characteristics



Temperature and Discharge Capacity



CenturyYuasa

An affiliated business of the GS Yuasa Corporation, Century Yuasa has an 80-year history of supplying a range of stored energy solutions to the Australian market. An established network of sales and distributions offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service. CenturyYuasa is Australia's enduring manufacturer of stored energy products.

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