

## EnergSun Tubular Gel VRLA Battery, 8 Years Design Life

EnergSun has an established reputation for providing reliable power in cyclic applications. These batteries are designed to meet the growing request for low maintenance energy storage in applications such as telemetry, small solar storage and remote backup power supply. Constructed to meet international standards, the EnergSun Gel 205 is built to survive Australia's harsh conditions.

- 8 Year Design Life
- Tubular Plate Valve Regulated Lead Acid
- No Equalising Charge Required
- Recyclable

### General Performance

Battery	Gel 205	
Application	Photovoltaic applications/Telecommunication/Recreation	
Design Life	8 Years	
Nominal Capacity	206Ah @C100	
Nominal Voltage	12V	
Actual Capacity at 20°C	1 hour rate to 1.70Vpc	106 Ah
	10 hour rate to 1.80 Vpc	165 Ah
	20 hour rate to 1.80 Vpc	178 Ah
	100 hour rate to 1.80 Vpc	206 Ah

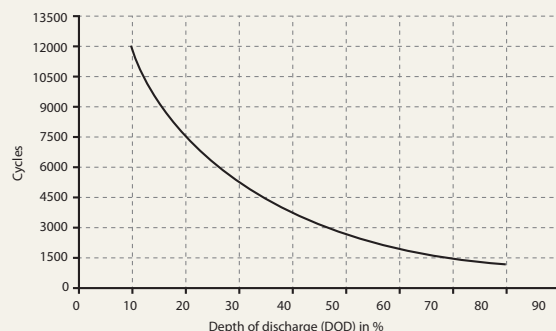
### Electrolyte

Fully charge density at 25°C	1.240 SG
Density Range	1.230 to 1.250 SG
Gelled/Absorbed	Gelled
Mounting Orientation	Vertical Only

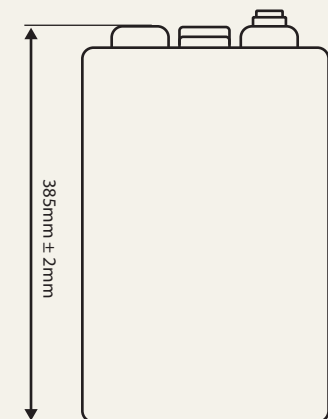
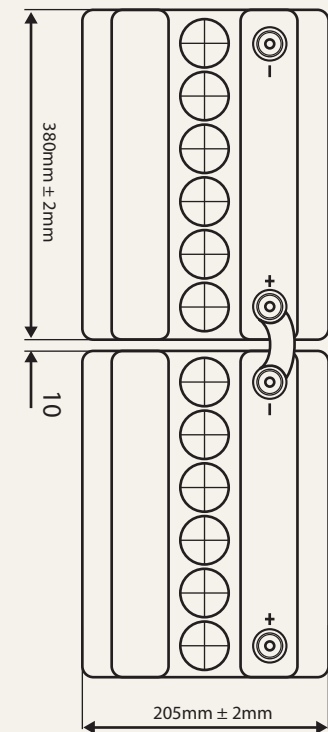
### Plates

Positive Plates	
Number/Cell	3
Type	Tubular Plate
Material of spine	Corrosion resistant PbCaSn-alloy
Thickness (mm)	10 mm
Negative Plates	
Number/Cell	4
Type	Flat Pasted Plate
Material of grid	PbCaSn-alloy
Thickness (mm)	5 mm

### ■ Cycles as a function of Depth of Discharge



### Terminal Position



*Enersun Tubular Gel VRLA Battery, 8 Years Design Life*

Physical Properties	
<b>Separators</b>	
Type	Micro-porous separator
Is glass fibre included?	No
Thickness (mm)	2 mm
<b>Lid &amp; Container Materials</b>	
Lid Material / Colour	High impact, SAN (Styrene-Acrylonitrile)/Grey
Container Material / Colour	High impact, SAN (Styrene-Acrylonitrile)/Grey
Flame Retardant - UL94	HB
Safety Vent Operational Pressure	12 kPa
Flame Arrestor Filter Fitted	Yes
<b>Dimensions</b>	
Length (mm)	380mm +/- 2 mm
Overall Width (mm)	205mm +/- 2 mm
Overall Height	385 mm +/- 2 mm
Battery Weight (Kg) Total (wet)	74.2kgs

Electrical Properties			
Self Discharge Rate @ 20°C	< 3% per month at 25°C		
Internal Resistance (mOHMS)	7.2mΩ		
Normal Charge (Amperes)	16.5 A		
Max. Charge (Amperes)	33 A		
<b>Voltage Cycling</b>		DoD% per day	
	<40% @ C10	>40% and <60% @ C10	
Voltage @ End of Charge	2.35Vpc	2.40Vpc	
<b>Charge Voltage Floating</b>			
	Float Vpc @ 20°C	Float Vpc @25°C	Float Vpc @ 30°C
Float Voltage (Vpc) pure floating applications	2.25 Vpc	2.25Vpc	2.25Vpc
Float Current (mA)	<110mA	<110mA	110mA
Initial Short circuit current (A)	1150 A		
<b>Efficiency at 10 hour rate (%)</b>			
Ampere-Hour	>90%		
Watt-Hour	>78%		

Torque Setting	
Terminal Torque Setting	22 N.m.

Compliant Standard	
Battery Standard	
Test Standards	IEC 60896-21, IEC 61427

**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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