

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 135 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 135	
Application	Photovoltaic Applications/Telecommunication/Recreation	
Design Life	8 Years	
Nominal Capacity	137Ah@C100	
Nominal Voltage	12V	
Actual Capacity at 20°C	1 hour rate to 1.70Vpc	71 Ah
	10 hour rate to 1.80 Vpc	109 Ah
	20 hour rate to 1.80 Vpc	118 Ah
	100 hour rate to 1.80 Vpc	137Ah

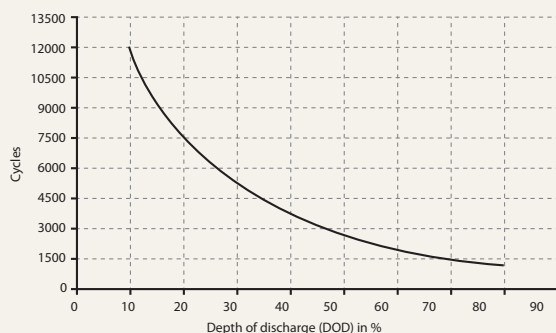
Electrolyte

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

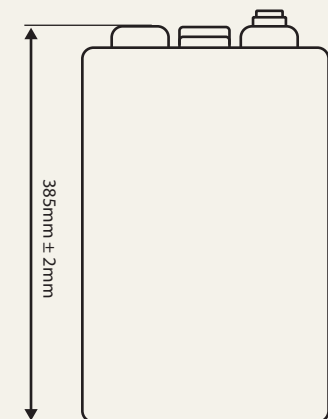
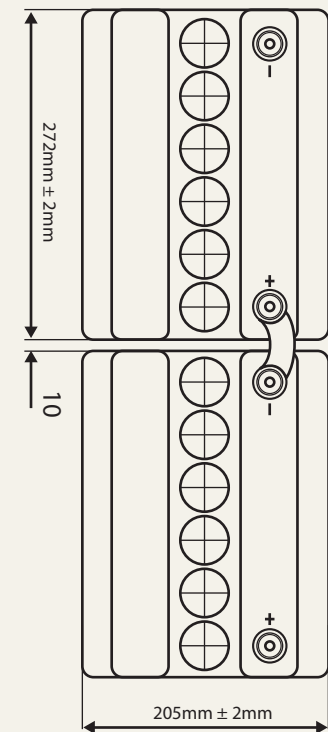
Plates

Positive Plates	
Number/Cell	2
Type	Tubular Plate
Material of spine	Corrosion resistant PbCaSn-alloy
Thickness (mm)	10 mm
Negative Plates	
Number/Cell	3
Type	Flat Pasted Plate
Material of grid	PbCaSn-alloy
Thickness (mm)	5 mm

■ Cycles as a function of Depth of Discharge



Terminal Position



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Physical Properties	
Separators	
Type	Micro-porous separator
Is glass fibre included?	No
Thickness (mm)	2 mm
Lid & Container Materials	
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
Dimensions	
Length (mm)	272 mm +/- 2 mm
Overall Width (mm)	205 mm +/- 2 mm
Overall Height	385mm +/- 2 mm
Battery Weight (Kg) Total (wet)	52 kgs

Electrical Properties			
Self Discharge Rate @ 20°C	< 3% per month at 25°C		
Internal Resistance (mOHMS)	10.8 mΩ		
Normal Charge (Amperes)	11 A		
Max. Charge (Amperes)	22 A		
Voltage Cycling	DoD% per day		
	<40% @ C10	>40% and <60% @ C10	
Voltage @ End of Charge	2.35Vpc	2.40Vpc	
Charge Voltage Floating			
	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		
Efficiency at 10 hour rate (%)			
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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