

Advanced Nano-Carbon Deep Cycle Valve Regulated Lead Acid Battery

Advanced Nano-Carbon technology performs superior deep long cycle life and is deployed in high capacity cyclic cells for a variety of large energy storage applications. The modular unit design provides easy installation and reduced site space. Modular unit construction has front facing terminals for easy maintenance, even in large energy storage solutions.

- High Cycle Life Design
- Long Service Life 5500 cycles @ 50% DOD (5000 cycles @ 70% DOD)

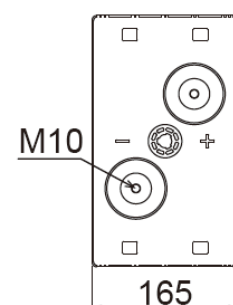
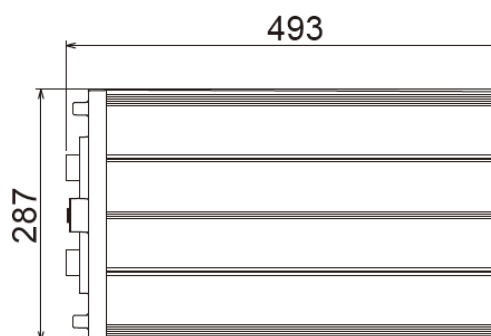
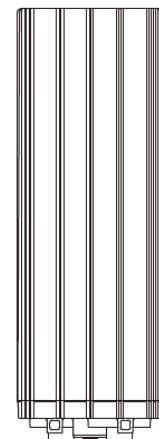
General Performance		
Battery	SLR1000-2	
Application	Cyclic	
Design Life	15 years	
Up to 6 Parallel Strings:	5500 Cycles @ 50%DOD @ 25°C	
Single String Only:	5500 Cycles @ 50% DOD @ 25°C 5000 Cycles @ 70% DOD @ 25°C	
Nominal Capacity	1000Ah (10Hr rate to 1.8VPC @25°C) 1953Whr/cell	
Actual Capacity at 25°C	1 hour rate to 1.70V	641.5Ah 1160.4Whr/cell
	3 hour rate to 1.70V	820.8Ah 1556.7Whr/cell
	10 hour rate to 1.80V	1000Ah 1953Whr/cell
	20 hour rate to 1.9V	1094Ah 2264Whr/cell



Electrolyte	
Type	Absorbed
Mounting Orientation	Horizontal (narrow side down)

Torque Setting	
Terminal Torque Setting	17.2 ± 2.5 N·m
Terminal	M10

Compliant Standard	
Manufacturing Standard	JIS C8704-2: 1999



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Physical Properties

Container & Cover Materials

Cell Material, Polypropylene, white

Dimensions:

Width 165mm ± 3

Length 287mm ± 3

Height 468mm ± 3

Overall Height 493mm ± 3

Battery Weight (kg) **67kg**

Electrical Properties

Normal Charge Multiple-step constant-current charge and charge/discharge power (Ah) management method is recommended:
Stage 1 - 2 I₁₀ (0.2 C₁₀) until the battery state of charge (SOC) reaches 80%
Stage 2 - 1 I₁₀ (0.1C₁₀) until the SOC reaches 90%
Stage 3 - 0.5 I₁₀ (0.05C₁₀) until the SOC reaches about 102%
 Equalization charge 0.05C₁₀ for 3 hours should be applied once after each time the discharge amount reaches 3.5 to 5 times the rating capacity and every month. (Volts @ End of Charge 2.4-2.7VPC)

Max. Charge (Amperes) 200A

Max. Sustained Current 30 I₁₀ (3 C₁₀) for 1 minute

(Without damage discharging) 60 I₁₀ (6 C₁₀) for 5 seconds

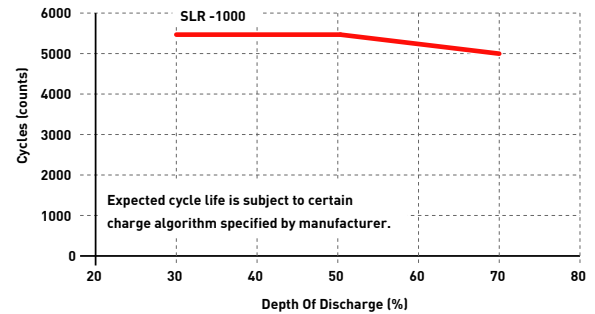
Internal Resistance (mOHMS) 0.26

Initial Short circuit current (A) 8000A

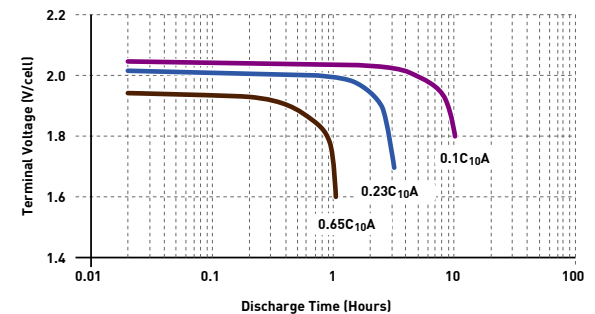
Efficiency at 10 hour rate (%)

Ampere-Hour >98.5%

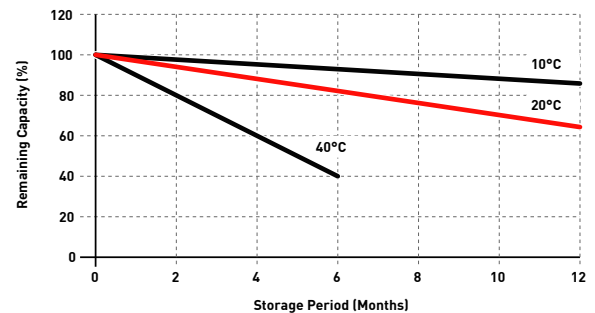
Expected Cycle life at 25°C



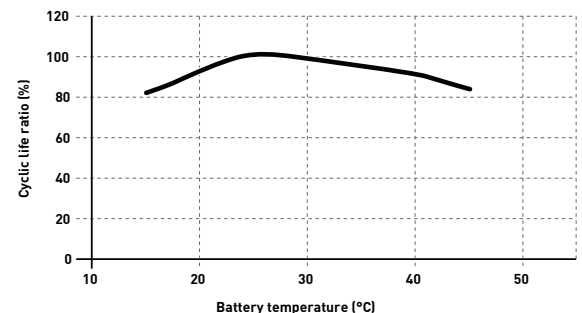
Discharge Characteristic Curves at 25°C



Self Discharge characteristic



Cyclic life performance by battery temperature



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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