

SILICONE BATTERIES INC.

www.siliconebatteries.ca

DW12-100

SILICONE BATTERY 12V-100AH

HIGH TEMPERATURE ENDURANCE AND PERFORMANCE

60 MINUTES FAST RECHARGE • ENVIRONMENTAL FRIENDLY

GENERAL FEATURES

Patent protected proprietary electrolyte is non-corrosive hence battery lasts longer with more charging cycles

Extreme high and extreme low temperature performance: -40°C to +70°C

Performs extremely well in hot outdoor environment; VRLA loses 50% of charging cycles for every 8°C increase in temperature about 25°C, Silicone batteries only lose around 20% under the same condition

1,700 to 2,200 charging cycles for 50% depth of discharge

Self-discharge rate approximately 20% in 2 years

Fast recharge capability, 90% capacity can be recharged in 60 minutes

30% - 50% higher specific energy than VRLA

PRODUCT SPECIFICATION

Nominal Voltage:

12V

Rated Capacity:

20 Hour Rate (1.80V/Cell)	112.00AH
10 Hour Rate (1.80V/Cell)	110.00AH
5 Hour Rate (1.60V/Cell)	87.80AH
1 Hour Rate (1.20V/Cell)	82.50AH

Dimension and Weight:

Length: 331mm ± 2mm

Width: 175mm ± 2mm

Height: 225mm ± 2mm

Weight: 28.0kg ± 0.5kg

Operating Temperature Range:

Discharging -40°C to +70°C

Charging -20°C to +50°C

Storage -20°C to +50°C

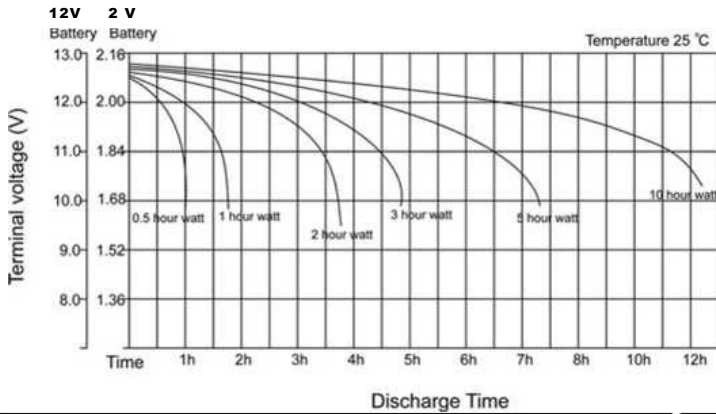
APPLICATIONS:



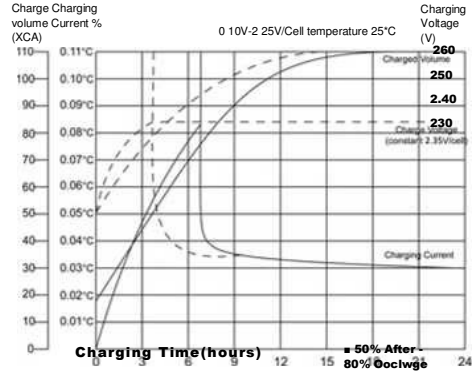
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ADVANCED SILICONE POWER BATTERY

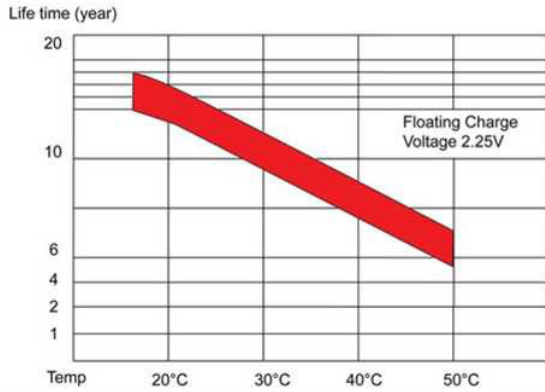
Hour - Watt Discharging Curves



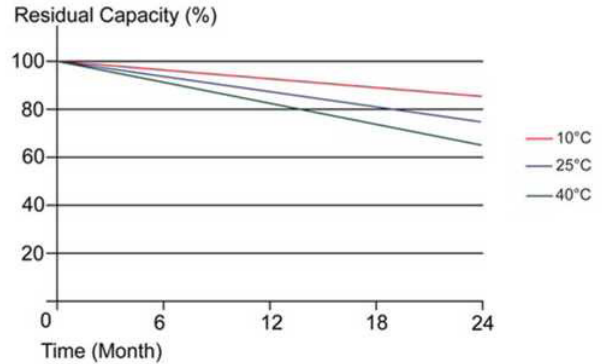
Charging Performance Curves



Temperature Effect Curves on Floating Charge Life



Self Discharge Curves



Service Life Cycle Curves in relation to Depth of Discharge

