



* Silicone Power Battery

Silicone Power Battery

Silicone Power battery is non corrosive and is environment friendly. With its reliable and excellent performance, it can also work at low temperatures such as remaining running under deep water. The high transient electric current and better storage capacity of these batteries gives you the best charge performance ever. Its competence in terms of price and longer life empowers you to enter the global power market.

Applications :

- * Electric vehicles power batteries
- * Telecommunication back use
- * Various UPS / EPS applications
- * Medical equipment use
- * Fire, safety and alarming systems
- * Railroad applications
- * SLI (vehicles starting, lighting)
- * Water craft use battery
- * Electric power systems
- * Deep-sea lighting and power use
- * Solar lighting reserve batteries
- * Cordless power tools batteries

Features

- * Optimized for high current discharges, and able to discharge 30C in 8 seconds
- * Can be recharged via large currents of up to 0.5-1.0C, and will be shorter half time than the lead acid batteries
- * Hold more charge and have much higher capacity than other batteries
- * 10 years float life, and are able to last up to more than 400 deep cycles
- * Self-discharge in greensaver batteries are greatly reduced
- * Able to hold 80-85% of their total capacity under 10 C temperatures
- * Able to operate under the harshest environments from -40 C-+60 C temperatures
- * No memory effects, and maintenance free sealed design
- * Environmental protection silicate compound electrolyte
- * Low internal resistance

Specifications

Nominal Voltage	12V	Operating Temperature		Capacity Retention Rate (20°C)	1 month 96%
Capacity	8Ah: 20hrs (0.4A-10.5V)	Discharge	-15°C (5°C) ~ 50°C (122°C)		3 months 96%
	7.5Ah:10hrs (0.75A-10.5V)	Charge	0°C (32°C) ~ 40°C (104°C)		6 months 96%
	6.8Ah: 5hrs (1.36A-10.5V)	Storage	-15°C (5°C) ~ 40°C (104°C)	Float Charging Voltage	13.5~13.8V at 25°C (97°C)
	6Ah: 2hrs (3A-10.5V)			Maxima Charging Current	5A
Weight (kg)	2.7kg			Charging Voltage	14.4V~15.0V at 25°C(97°F)
Dimensions (mm)	151 x 65 x 95 x 100			Casing Material	ABS

Sealed Silicone Power Battery and Sealed Lead-Acid Battery Comparison Chart

Test Description	Typical maintenance free lead acid battery	Maintenance free silicone power battery
Specific energy (C20)	35 - 40Wh / Kg	42 - 46 Wh / Kg
Electrolyte	Sulfuric acid	Silicate compound
Self-discharge loss / Standard shelf life without charging	5% per month / 3-6 month	First month 4%, declines after the second month, maintains at 90% after a year
Instantaneous high current capability	3-7C	15-25C
Ability to recover form over-design	Fair	Excellent
Low temperature performance	Performance plummets below 0°C	Functions normally at - 40°C
Optimal operating temperature range	Needs ambient temperature adjustments	No control needed from - 40°C - +60°C
Environmental friendliness	Allows for minimal acid vapor	Minimal acid vapor inline with the requirement of the environment protection

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