

EV6-180

6V180Ah / 10hr rate



Introduction

Generagy EV AGM Series is designed for tough applications and repeated deep discharging. It is superior with the long cycle life, large current discharge capability, high reliability and safety. The range is the definitive choice for golf cart, electric medical equipment, automated guided vehicles (AGV), aerial lifts, floor cleaning equipment, robotics applications.

Battery Features

- Extra long cycle life and resistance to mechanical stress and the elements all in one battery.
- Maintenance-free
- Very high purity lead (purity rate 99.994%)
- Traction heavy duty grid design gives consistent active material adhesion and corrosion resistance.
- Fully tank formed plates for evenly formed and capacity matched plates.
- Low impurity electrolyte
- Recognized gas recombination efficiency greater than 99.9%
- Flame arresting pressure regulated safety sealing valves for safety.
- Low self-discharge
- Classified as non-spillable and not restricted for transportation by
 - > Air (IATA/ICAO provision 67)
 - > Surface (DOT-CFR-HMR49)
 - > Water (per IMDG amendment 27)

Electrical Specification

Design Life Cycles @ 80% D.O.D. (25°C)	450 Cycles
Nominal Capacity @ 25°C /77°F	
100 hour rate 2.16 A to 1.75Vpc	216 Ah
10 hour rate 18 A to 1.75Vpc	180 Ah
5 hour rate 32.4 A to 1.75Vpc	162 Ah
3 hour rate 48 A to 1.70Vpc	144 Ah
1 hour rate 108 A to 1.60Vpc	108 Ah
Minutes of Discharge	
25A to 5.25V	370
56A to 5.1V	145
75A to 5.1V	100
85A to 5.1V	81
100A to 5.1V	63
Cranking Amps	
0°C /32°F	930
-18°C /0°F	770
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	3.5 mΩ
Max. Discharge Current @ 25°C /77°F	1000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	7.35 ~ 7.45V
Max. Current	45 A
Standby Use	6.8 - 6.9V
Operating Temperature Range	-20 ~ 60°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

Battery Picture & Terminal Layout

ABS Case Colour
7628C

Terminal Type: T14

Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height			
306 mm	168 mm	220 mm	226 mm	30 kg	
12.0 inch	6.6 inch	8.7 inch	8.9 inch	66.1 lbs	

Typical Applications

- Golf Cart
- Tour Bus
- Electric Medical Equipments
- Aerial and Fork Lifts
- Golf Trolley
- Sweeper
- Floor Cleaning Machines
- Marine and RV

Certificates

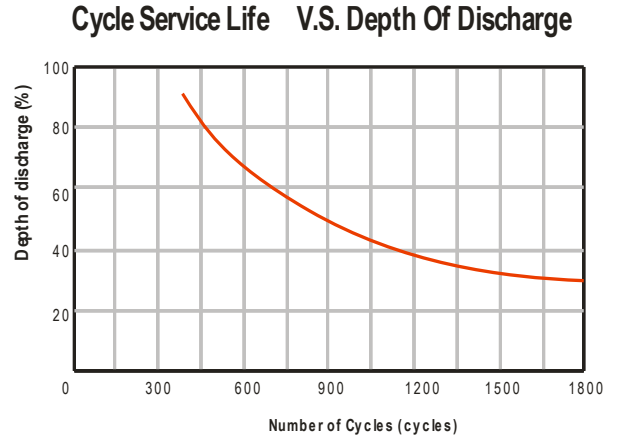
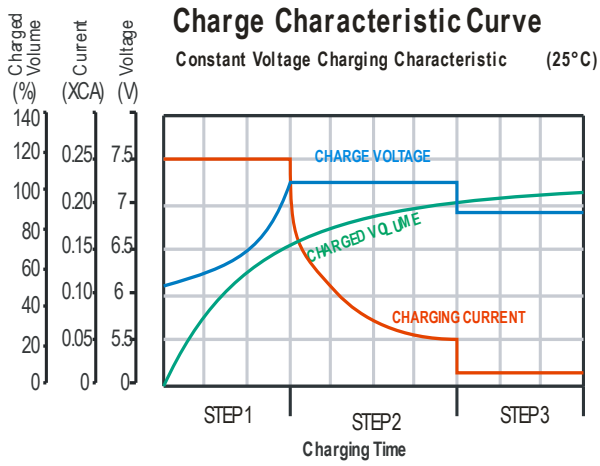


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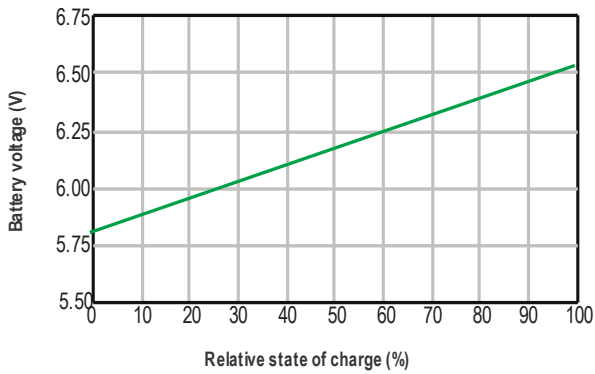
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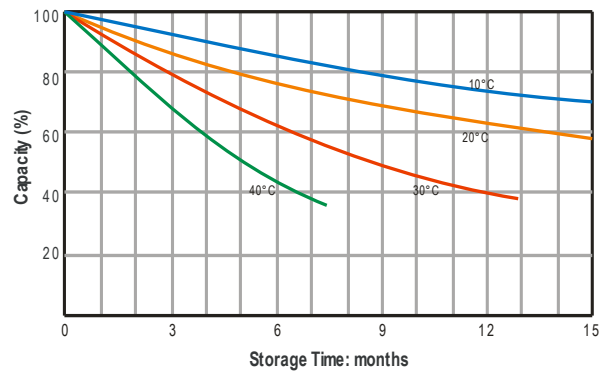
Graphs



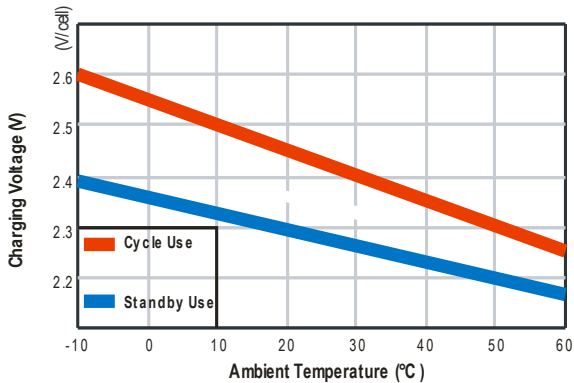
OCV V.S. State of Charge (20°C)



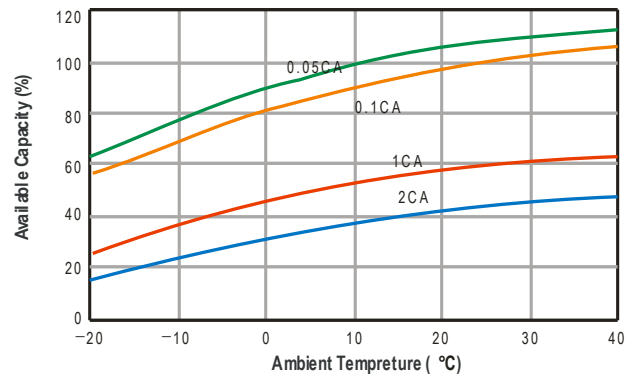
Self-Discharge Characteristic



Charging Voltage V.S. Temperature



Temperature Effects On Capacity



Subject to revision without notice. Please contact our sales representatives for latest version.