EV12-80

12V80Ah / 10hr rate

Introduction

Genergy 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

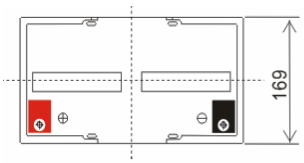
- Extra long cycle life and resistance to mechanical stress and the elements all in one battery.
- Maintenance-free
- Very high purity lead (purity rate 99.994%)
- Traction heavy duty grid design gives consistent active material adhesion and corrosion resistance.
- Fully tank formed plates for evenly 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

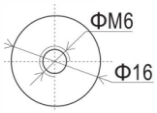
Design Life Cycles @ 80% D.O.D. (25°C)	450 Cycles
Nominal Capacity @ 25°C /77°F	
100 hour rate 0.96A to 1.75Vpc	96 Ah
10 hour rate 8.0 A to 1.75Vpc	80 Ah
5 hour rate 14.4A to 1.75Vpc	72 Ah
3 hour rate 21.3A to 1.70Vpc	64 Ah
1 hour rate 48.0A to 1.60Vpc	48 Ah
Minutes of Discharge	
25A to 10.5V 150	56A to 10.2V 58
75A to 10.2V 40	85A to10.2V 33
100A to10.2V 25	
Cranking Amps	
0°C /32°F 415	-18°C /0°F 340
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	8.0 mΩ
Max. Discharge Current @ 25°C /77°F	550 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	20 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-20 ~ 60°C
Notes: battery voltage must be adjusted according to temperature.	
Please refer to our recommendation.	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

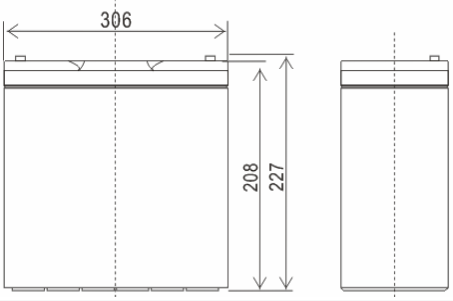
Battery Picture & Terminal Layout

ABS Case Colour
7628C



Terminal Type: T12





Dimension & Weight

Dimension (± 2mm)				Weight
Length	Width	Height	Total Height	(± 2%)
306 mm	169 mm	208 mm	227 mm	25.6 kg
12.0 inch	6.7 inch	8.2 inch	8.9 inch	56.4 lbs

Typical Applications

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

Cetificates

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

Web: www.genergybattery.com | **Email:** sales@genergybattery.com

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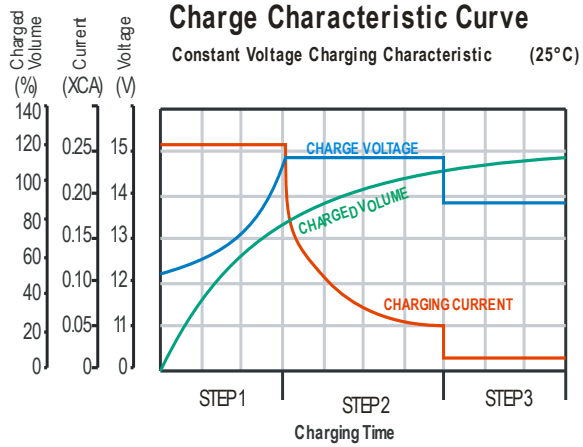
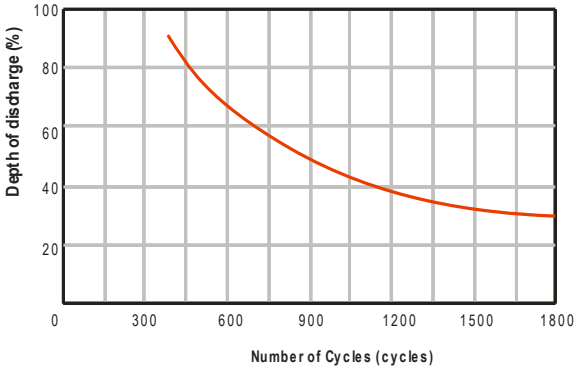
Graphs

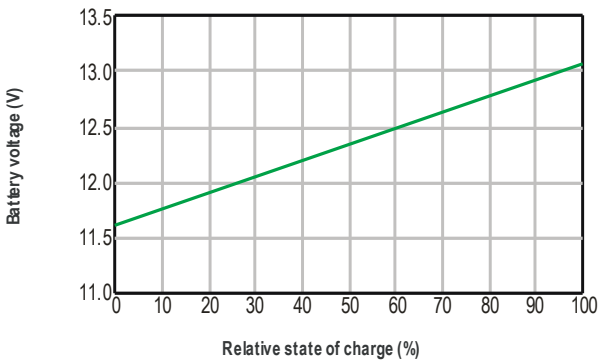
Charge Characteristic Curve



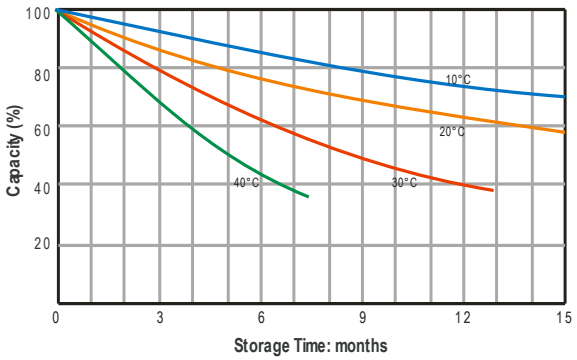
Cycle Service Life V.S. Depth Of Discharge



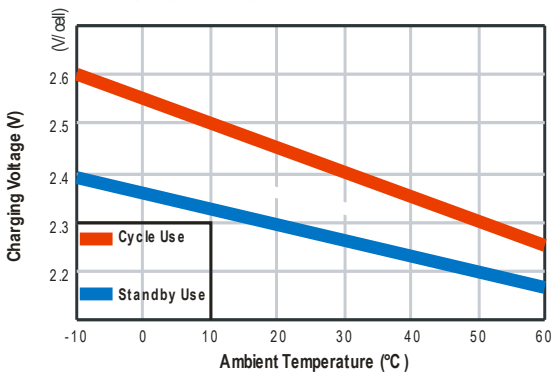
OCV V.S. State of Charge (20°C)



Self-Discharge Characteristic



Charging Voltage V.S. Temperature



Temperature Effects On Capacity