

# EV12-75

12V75Ah / 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	0.9A to 1.75Vpc	90Ah
10	hour rate	7.5 A to 1.75Vpc	75 Ah
5	hour rate	13.5 A to 1.75Vpc	67.5 Ah
3	hour rate	20 A to 1.70Vpc	60 Ah
1	hour rate	45 A to 1.60Vpc	45 Ah

Minutes of Discharge

25A to 10.5V	..... 140	56A to 10.2V	..... 54
75A to 10.2V	..... 38	85A to 10.2V	..... 30
100A to 10.2V	..... 24		

Cranking Amps

0°C /32°F	..... 390	-18°C /0°F	..... 320
-----------	-----------	------------	-----------

Internal Resistance

(Fully charged battery @ 25°C /77°F) ..... 8 mΩ

Max. Discharge Current @ 25°C /77°F ..... 500 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

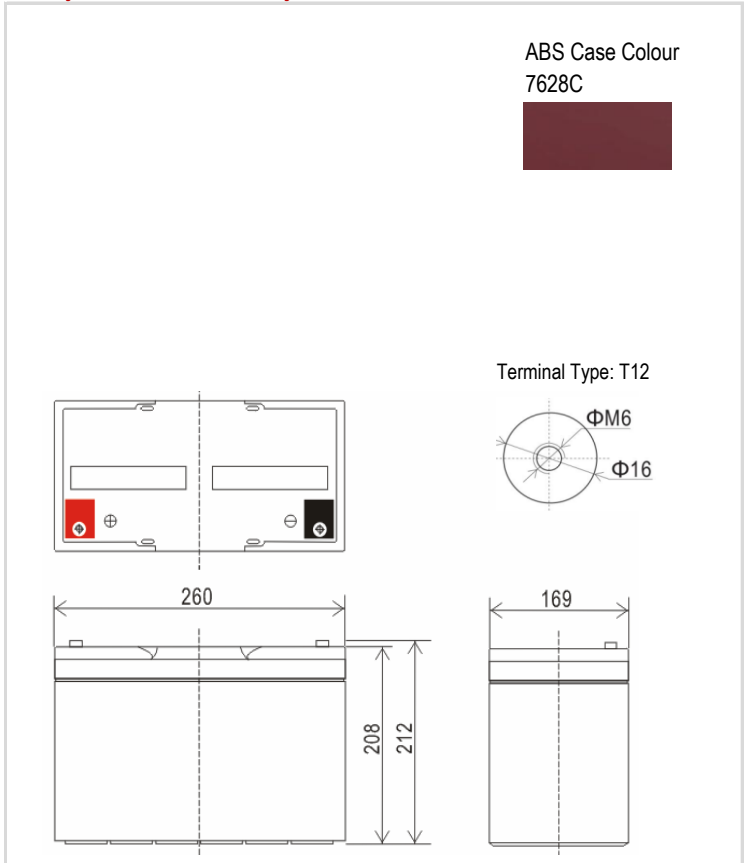
Notes: battery voltage must be adjusted according to temperature.

Please refer to our recommendation.

Self-Discharge

3% of capacity declined per month @ 25°C (77°F).

### Battery Picture & Terminal Layout



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Height		
260 mm	169 mm	208 mm	212 mm	24.8 kg	
10.2 inch	6.7 inch	8.2 inch	8.3 inch	54.7 lbs	

### Typical Applications

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

### Certificates



# EV12-75

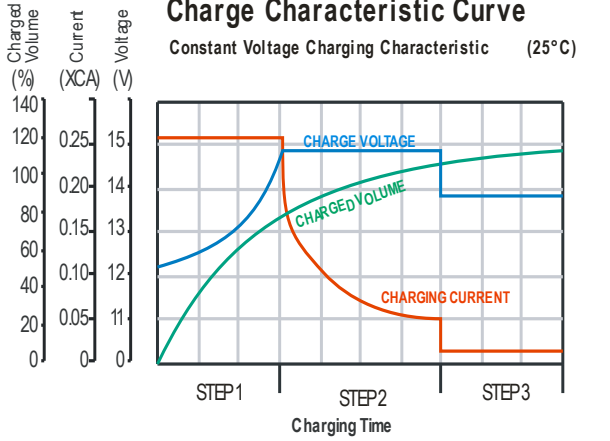
12V75Ah / 10hr rate



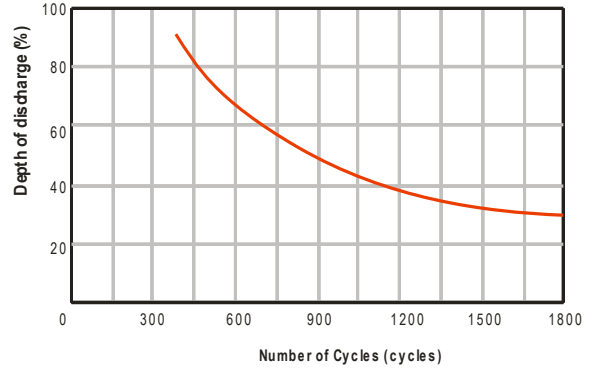
**Graphs**

### Charge Characteristic Curve

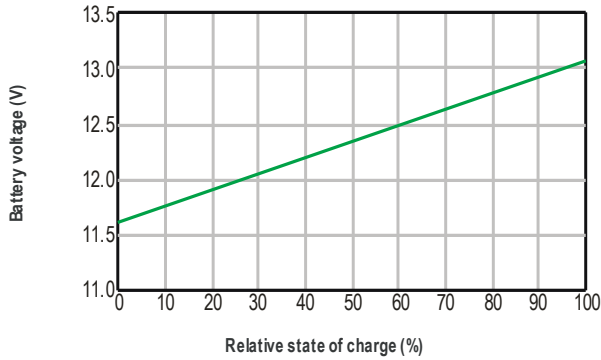
Constant Voltage Charging Characteristic (25°C)



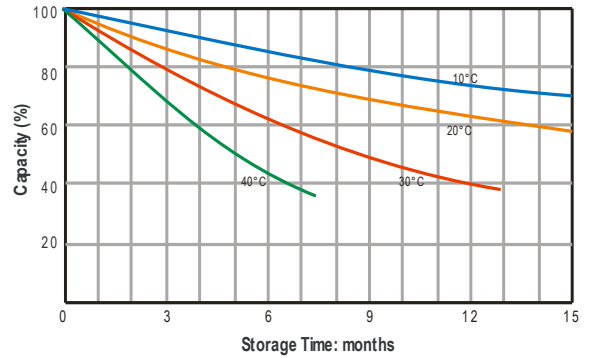
### Cycle Service Life V.S. Depth Of Discharge



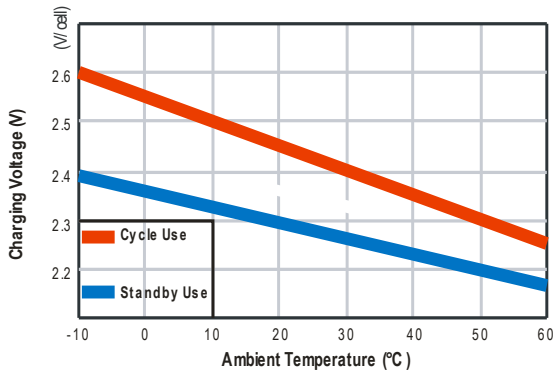
### OCV V.S. State of Charge (20°C)



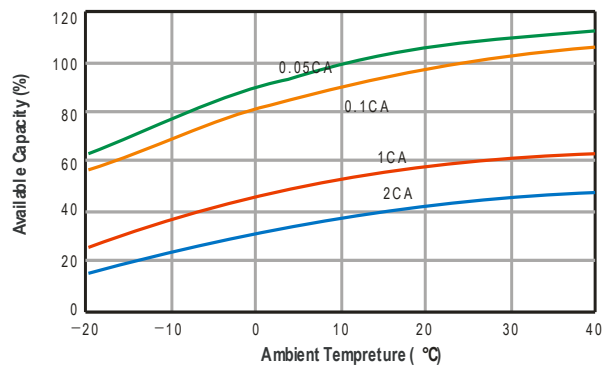
### Self-Discharge Characteristic



### Charging Voltage V.S. Temperature



### Temperature Effects On Capacity



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