

EV12-180

12V180Ah / 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	2.16A to 1.75Vpc	.....	216Ah
10	hour rate	18A to 1.75Vpc	.....	180Ah
5	hour rate	32.4 A to 1.75Vpc	.....	162Ah
3	hour rate	48A to 1.70Vpc	.....	144Ah
1	hour rate	10.8A to 1.60Vpc	.....	108Ah

Minutes of Discharge

25A to 10.5V	.....	370	56A to 10.2V	.....	145
75A to 5.10V	100	85A to 5.10V	81
100A to 5.10V	63			

Cranking Amps

0°C /32°F	930	-18°C /0°F	770
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Internal Resistance

(Fully charged battery @ 25°C /77°F) 6 mΩ

Max. Discharge Current @ 25°C /77°F1000 A (5S)

Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use	.....	14.7 ~ 14.9V
Max. Current	.....	45A
Standby Use	.....	13.6 - 13.8V

Operating Temperature Range -20 ~ 60°C

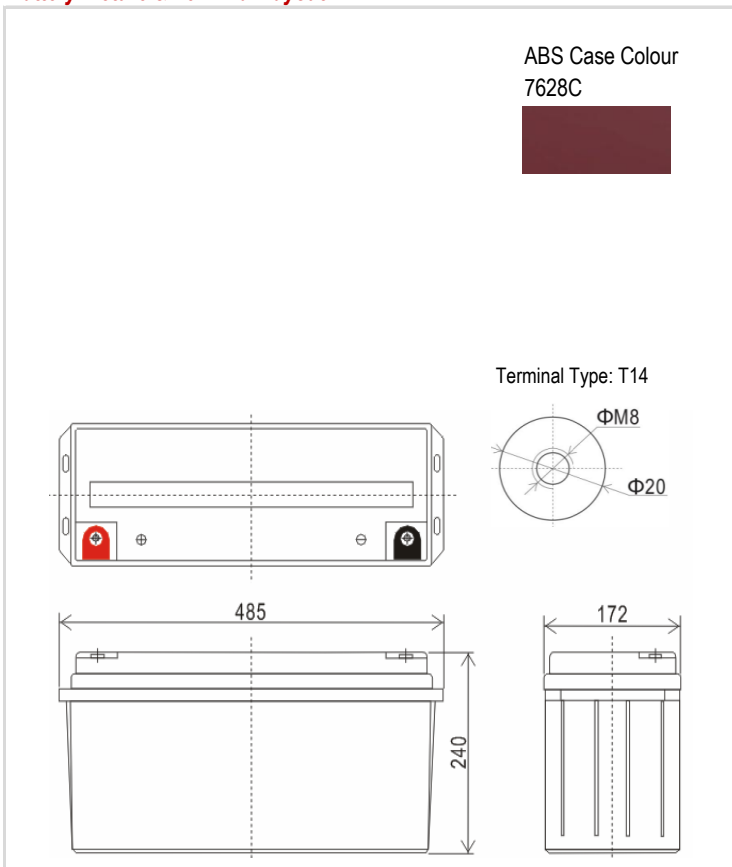
Notes: battery voltage must be adjusted according to temperature.

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		
485 mm	172 mm	240 mm	240 mm	56 kg	
19.1 inch	6.8 inch	9.4 inch	9.4 inch	123.5 lbs	

Typical Applications

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

Certificates



EV12-180

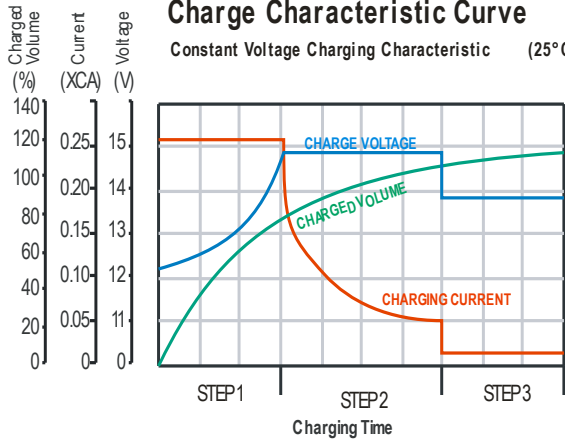
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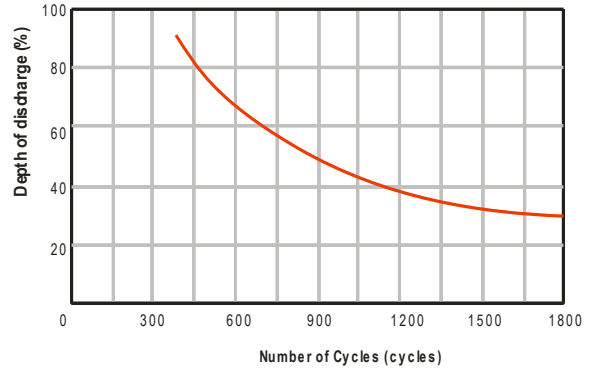
Graphs

Charge Characteristic Curve

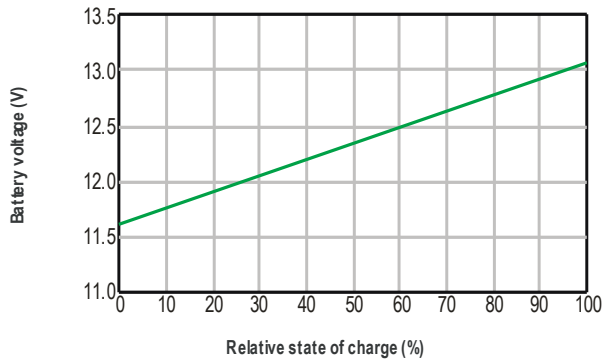
Constant Voltage Charging Characteristic (25°C)



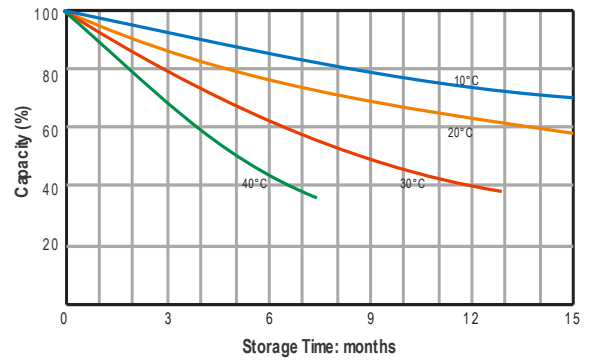
Cycle Service Life V.S. Depth Of Discharge



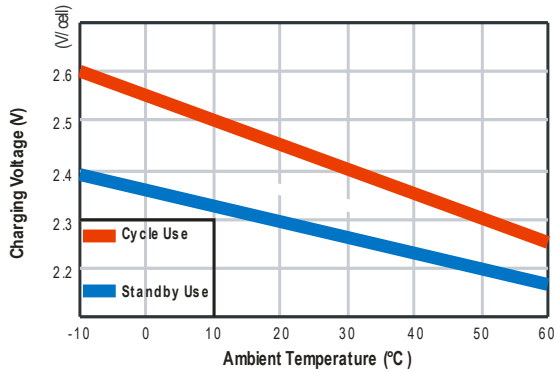
OCV V.S. State of Charge (20°C)



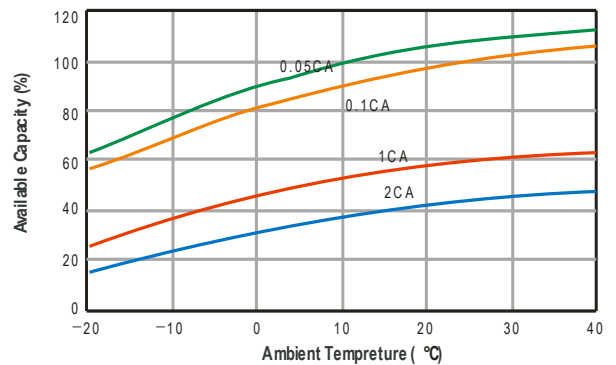
Self-Discharge Characteristic



Charging Voltage V.S. Temperature



Temperature Effects On Capacity



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