

EV12-100

12V100Ah / 10hr rate



Introduction

Generergy 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 | 1.2A to 1.75Vpc | ..... | 120 Ah |
| 10 | hour rate | 10 A to 1.75Vpc | ..... | 100Ah |
| 5 | hour rate | 18 A to 1.75Vpc | ..... | 90 Ah |
| 3 | hour rate | 26.6 A to 1.70Vpc | ..... | 80Ah |
| 1 | hour rate | 60 A to 1.60Vpc | ..... | 60Ah |

Minutes of Discharge

| | | | | | |
|---------------|-------|-----|--------------|-------|----|
| 25A to 10.5V | ..... | 195 | 56A to 10.2V | ..... | 76 |
| 75A to 10.2V | ..... | 52 | 85A to 10.2V | ..... | 42 |
| 100A to 10.2V | ..... | 33 | | | |

Cranking Amps

0°C /32°F 520 -18°C /0°F 430

Internal Resistance

(Fully charged battery @ 25°C /77°F) 7 mΩ

Max. Discharge Current @ 25°C /77°F 600 A (5S)

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

| | | |
|--------------|-------|--------------|
| Cycle Use | ..... | 14.7 ~ 14.9V |
| Max. Current | ..... | 25.0 A |
| Standby Use | ..... | 13.6 - 13.8V |

Operating Temperature Range -20 ~ 60°C

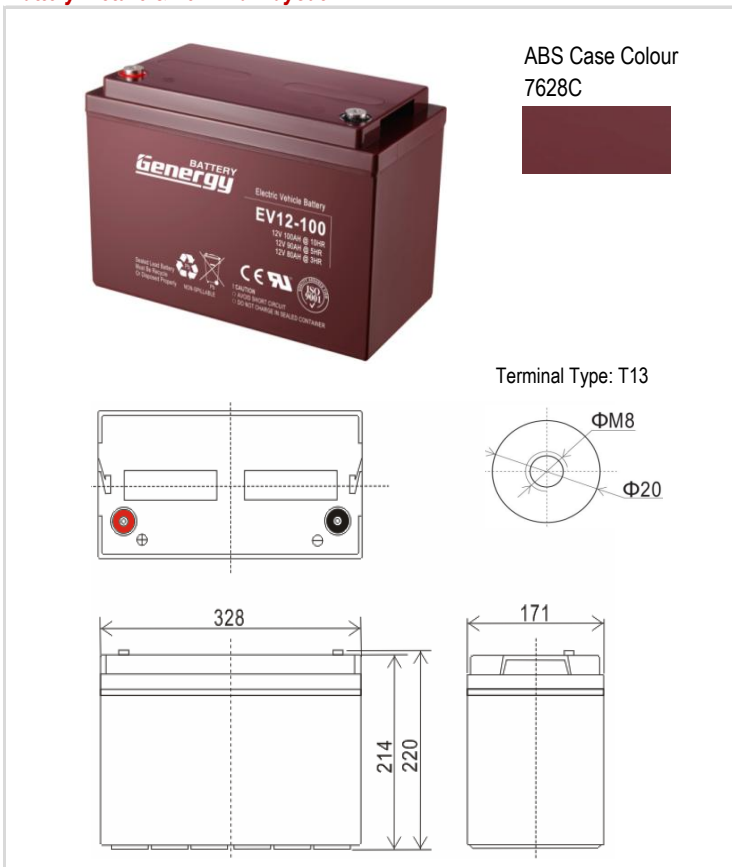
Notes: battery voltage must be adjusted according to temperature.

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 | | | |
| 328 mm | 171 mm | 214 mm | 220 mm | 31 kg | |
| 12.9 inch | 6.7 inch | 8.4 inch | 8.7 inch | 68.3 lbs | |

Typical Applications

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

Certificates

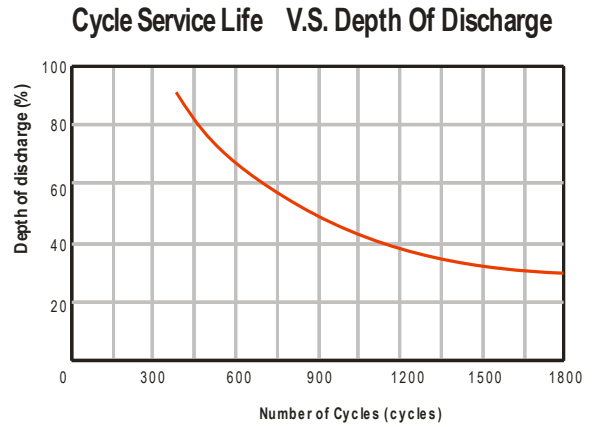
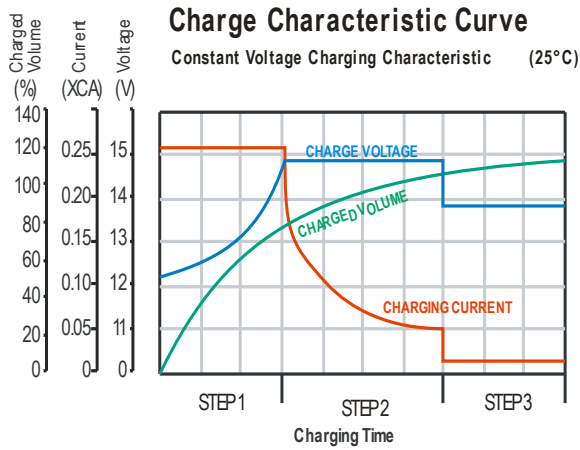


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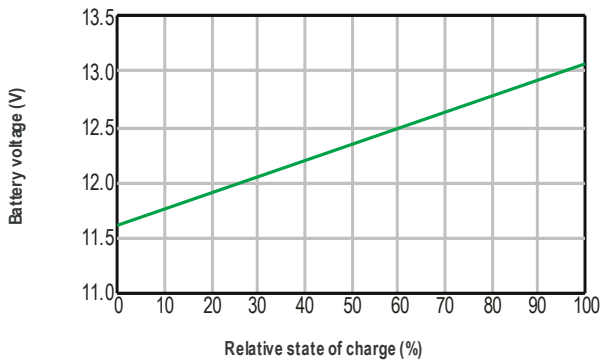
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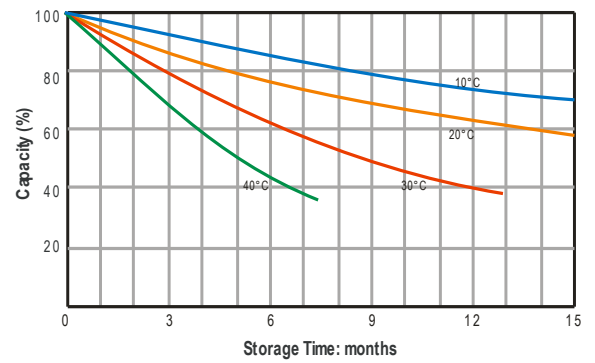
Graphs



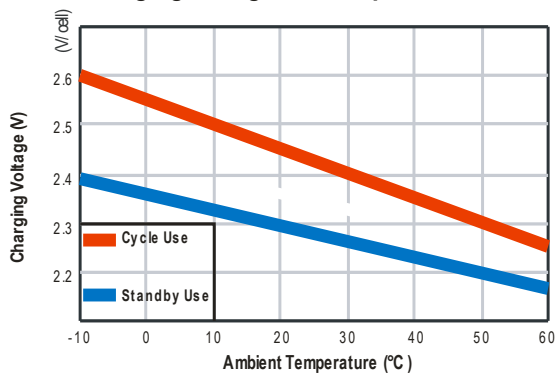
OCV V.S. State of Charge (20°C)



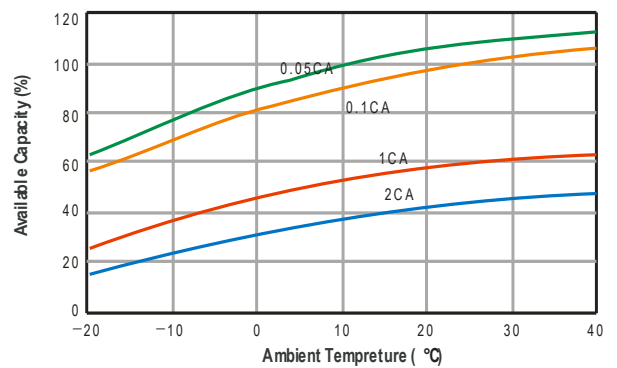
Self-Discharge Characteristic



Charging Voltage V.S. Temperature



Temperature Effects On Capacity



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