NEW POWER®

# GOLF CART BATTERY
## EV Series

**EV8-150**

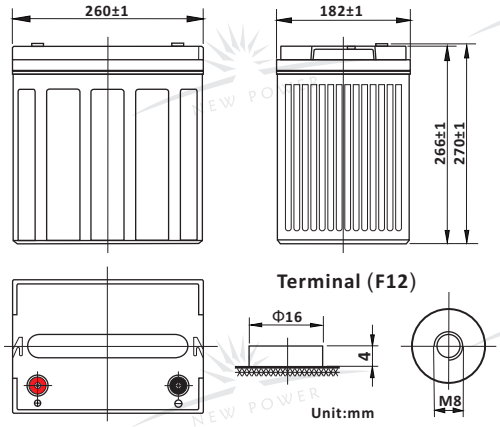
The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

## Battery Construction

| COMPONENT | POSITIVE PLATE | NEGATIVE PLATE | CONTAINER | COVER | SAFETY VALVE | TERMINAL | SEPARATOR | ELECTROLYTE |
|---|---|---|---|---|---|---|---|---|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | Copper | Fiberglass | Sulfuric acid |

## Performance Characteristics

- ***Nominal Voltage*** ····· 8V
- ***Ampere Hour Capacity***
  - *20 Hours rate (8A, 7.2V)* ····· 160Ah
  - *10 Hours rate (15A, 7.2V)* ····· 150Ah
  - *5 Hours rate (27A, 7V)* ····· 135Ah
- ***Minutes of Discharge***
  - *25A to 7.0V* ····· 335 *56A to 6.8V* ····· 115
  - *75A to 6.4V* ····· 75 *85A to 6.4V* ····· 65
  - *100A to 6.4V* ····· 49
- ***Cranking Amps***
  - *32°F/0°C* ····· 950 *0°F/-18°C* ····· 750
- ***Internal Resistance***
  - *Fully charged battery (77°F /25°C)* ····· 2.5mΩ
- ***Self-Discharge (68°F /20°C)***
  - *Capacity declined per month* ····· 3%
- ***Opening temperature Range***
  - *Discharge* ····· -20 ~ 60°C
  - *Charge* ····· -10 ~ 50°C
  - *Storage* ····· -20 ~ 60°C
- ***Max. discharge current (77°F /25°C)*** ····· 1200A(5S)
- ***Short Circuit Current*** ····· 2700A
- ***Charge Methods: constant voltage charge (77°F /25°C)***
  - *Cycle use* ····· 9.80 ~9.93V
  - *Max. Current* ····· 37.5A
  - *Standby use* ····· 9.07 ~ 9.20V




## General Features

- ***Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.***
- ***Not restricted for air transport-complies with IATA/ICAO Special Provision A67.***
- ***A recognized component of CE and UL***
- ***Computer designed lead, calcium tin alloy grid for high power density.***
- ***Long service life, float or cyclic applications.***
- ***Maintenance-free operation.***
- ***Low self discharge***
- ***Design Life 10 years***

### Constant Current Discharge (Amperes at 77°F/25°C)

| V/cell | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60 | 310 | 260 | 159 | 114 | 91.5 | 41.0 | 27.5 | 15.3 | 8.15 |
| 1.65 | 299 | 252 | 155 | 112 | 90.0 | 40.5 | 27.4 | 15.3 | 8.10 |
| 1.70 | 287 | 243 | 150 | 109 | 88.4 | 39.9 | 27.2 | 15.2 | 8.10 |
| 1.75 | 274 | 233 | 145 | 107 | 86.7 | 39.3 | 27.0 | 15.1 | 8.05 |
| 1.80 | 260 | 222 | 139 | 104 | 84.7 | 38.6 | 26.5 | 15.0 | 8.00 |

### Constant Power Discharge (Watts at 77°F/25°C)

| V/cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60 | 510 | 430 | 275 | 202 | 164 | 98.1 | 73.5 | 49.8 | 28.1 |
| 1.65 | 492 | 416 | 266 | 197 | 161 | 96.6 | 72.8 | 49.6 | 27.9 |
| 1.70 | 472 | 401 | 256 | 191 | 157 | 95.0 | 72.0 | 49.3 | 27.7 |
| 1.75 | 450 | 385 | 246 | 185 | 153 | 93.3 | 71.2 | 49.0 | 27.4 |
| 1.80 | 425 | 367 | 235 | 178 | 148 | 91.5 | 70.2 | 48.6 | 27.0 |

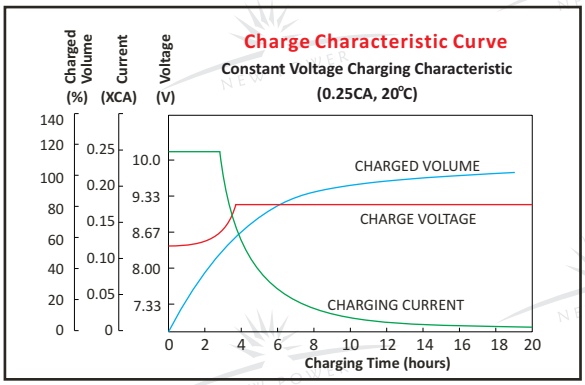
(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)

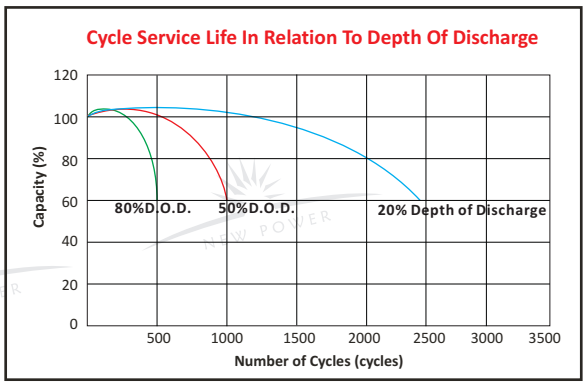
## Dimensions and Weight

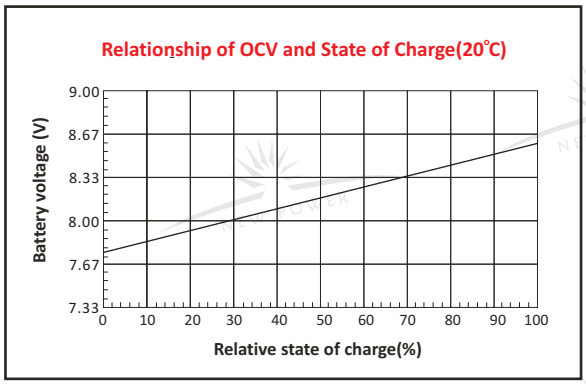
| *Type* | Length | Width | Height | Total Height | Approx. Weight |
|---|---|---|---|---|---|
| ***SI Units*** | 260mm | 182mm | 266mm | 270mm | 30Kg |
| ***English Units*** | 10.2inch | 7.16inch | 10.5inch | 10.6inch | 66.1lbs |

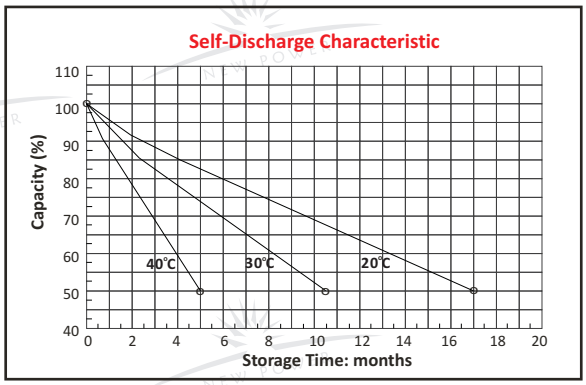

***Shenzhen New Power Industry Co., Ltd.***

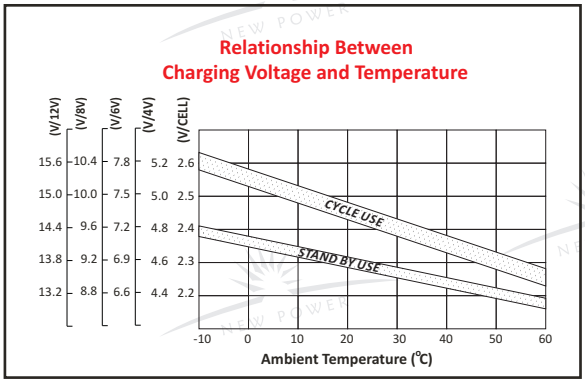
Tel: (86) 755-8622 0931 / 2609 5022
Fax: (86) 755-2609 5597
Email: sales@npbattery.com
***www.npbattery.com***

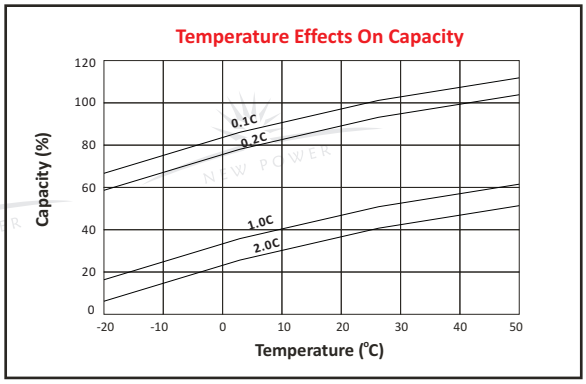


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Fax: (86) 755-2609 5597
Email: sales@npbattery.com
www.npbattery.com