


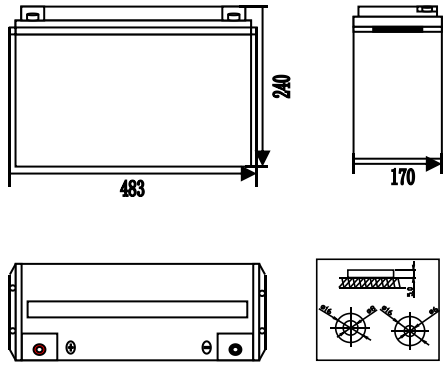


SHENZHEN XBATT ENERGY TECHNOLOGY CO.,LTD

XC121500(12V150AH-G)

| Specification | | Product Picture | |
|----------------------------------|---|---|---------------------------|
| Nominal Voltage | 12V |  | |
| Nominal Capacity (20HR) | 150.0AH | | |
| Product Series | GEL | | |
| Dimensions | Length | | 483±2mm (19.01inches) |
| | Width | | 170±2mm (6.69inches) |
| | Container Height | | 240±3mm (9.44inches) |
| | Total Height(with Terminal) | | 240±3mm (9.44inches) |
| Approx Weight | 40.0kg/88.0 lbs | | |
| Terminal | M6-16/M8-16 | | |
| Rated Capacity | 150AH/7.5A | | (20HR, 10.80V, 25°C/77°F) |
| | 142AH/14.2A | (10HR, 10.80V, 25°C/77°F) | |
| | 120AH/24.0A | (5HR, 10.80V, 25°C/77°F) | |
| | 105AH/35.0A | (3HR, 10.80V, 25°C/77°F) | |
| Max. Discharge Current | 90AH/90.0A | (1HR, 10.20V, 25°C/77°F) | |
| | 1600A(5s) | | |
| | Internal Resistance Approx 3mΩ | | |
| Operating Temp. Range | Discharge: | -35~50°C (-31~122°F) | |
| | Charge: | -20~40°C (-4~104°F) | |
| | Storage: | -45~40°C (-49~104°F) | |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | | |
| Cycle Use | Initial Charging Current less than 45.0A. Voltage 14.6V~14.9V at 25°C (77°F) Temp. Coefficient -5mV/°C | | |
| Standby Use | Initial Charging Current less than 45.0A Voltage 13.6V~13.9V at 25°C (77°F) Temp. Coefficient -3mV/°C | | |
| Capacity affected by Temperature | 40°C 104°F | 103% | |
| | 25°C 77°F | 100% | |
| | 0°C 32°F | 95% | |
| Self Discharge | Xbatt GEL series batteries may be stored for up to 12 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter | | |
| Design Life | 15 years | | |

Outer Dimensions



Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication military communication, etc.
- ◆ Uninterruptable Power System (UPS-for Telecom)
- ◆ Electric tool
- ◆ Solar Powered system
- ◆ Medical equipmen

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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|-------|------|
| 9. 60V | 500 | 399 | 285 | 164.0 | 116.9 | 94.7 | 51.0 | 36.8 | 24.5 | 14.54 | 7.64 |
| 9. 90V | 485 | 386 | 272 | 161.1 | 115.5 | 93.9 | 50.6 | 36.6 | 24.3 | 14.54 | 7.64 |
| 10. 20V | 456 | 357 | 257 | 156.8 | 114.0 | 93.2 | 50.3 | 36.5 | 24.3 | 14.54 | 7.50 |
| 10. 50V | 399 | 300 | 243 | 148.2 | 112.7 | 91.7 | 49.5 | 36.0 | 24.3 | 14.25 | 7.50 |
| 10. 80V | 357 | 257 | 228 | 128.3 | 111.2 | 90.2 | 48.0 | 35.0 | 24.0 | 14.25 | 7.50 |

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

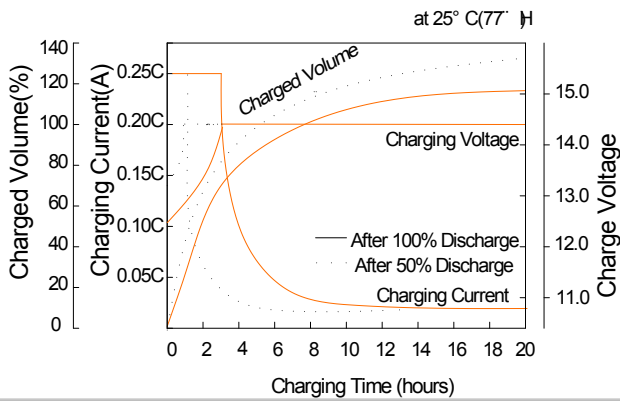
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-------|------|------|------|-------|-------|
| 1. 60V | 908 | 728 | 525 | 317.9 | 222.3 | 182.0 | 97.8 | 71.0 | 47.3 | 26.09 | 14.99 |
| 1. 65V | 870 | 699 | 497 | 306.5 | 219.5 | 179.0 | 97.2 | 70.5 | 47.1 | 25.94 | 14.99 |
| 1. 70V | 830 | 657 | 473 | 292.2 | 216.6 | 179.0 | 96.3 | 70.4 | 46.8 | 25.94 | 14.84 |
| 1. 75V | 728 | 555 | 446 | 275.1 | 213.8 | 176.1 | 95.0 | 69.5 | 46.8 | 25.65 | 14.54 |
| 1. 80V | 648 | 500 | 420 | 238.1 | 210.9 | 173.1 | 92.1 | 67.4 | 46.4 | 25.23 | 14.24 |

XC12V150AH-G

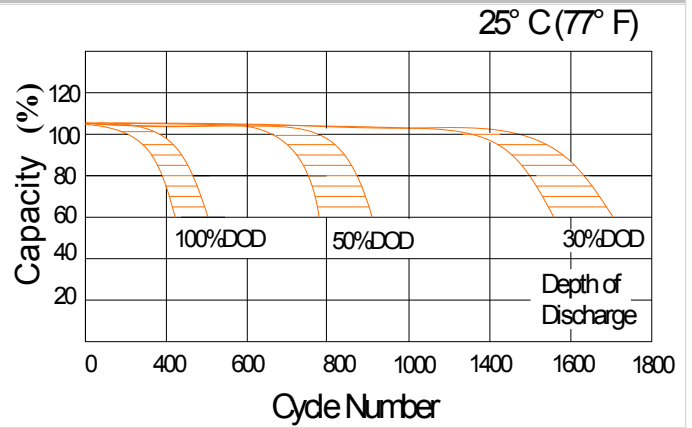
Battery Construction

| COMPONENT | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|-------------|
| RAW MATERIAL | Lead dioxide | Lead | ABS | ABS | Rubber | Copper | Fiberglass | Silicate |

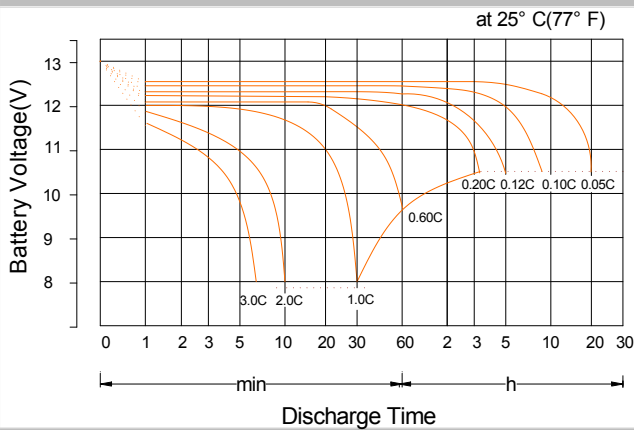
Charging characteristics



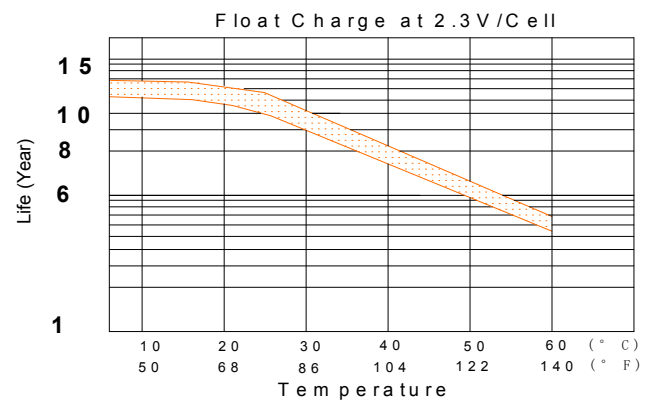
Cycle Life in Relation to Depth of Discharge



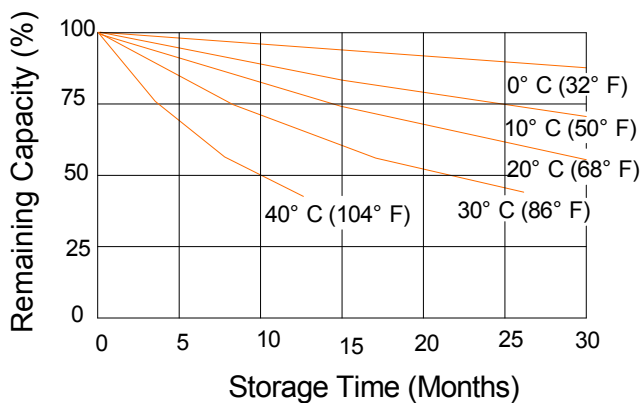
Discharge characteristics



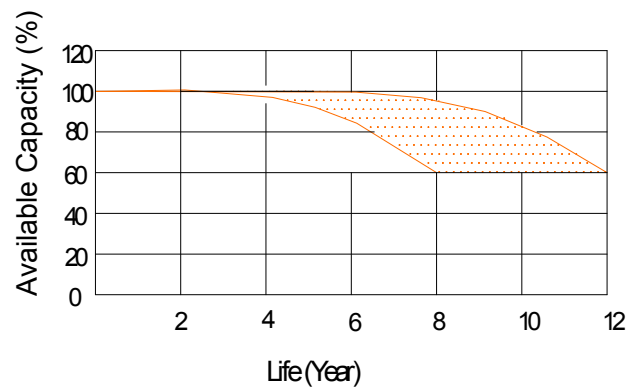
Effect of Temperature on Long Term Float Life



Storage characteristics



Float charge Life



Consultation

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