

CBL33-12

12V 33AH

General Purpose Sealed Lead Acid Battery



CBL33-12



Physical Specification

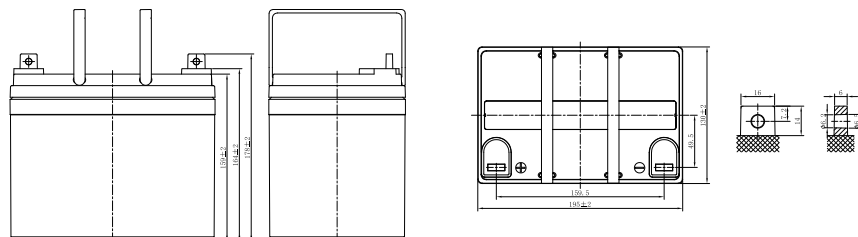
| | |
|-------------------------------|----------------------------------|
| Part Number: | CBL33-12 |
| Length: | 195 ± 2 mm (6.68 inches) |
| Width: | 130 ± 2 mm (5.12 inches) |
| Container Height: | 164 ± 2 mm (6.46 inches) |
| Total Height (with terminal): | 178 ± 2 mm (7.01 inches) |
| Approx Weight: | 10.5 Kg (23.2 lbs) |

Specifications

| | | | |
|-------------------------------------|---|--|------|
| | Nominal Voltage | 12V | |
| | (C20 ,1.75V/cell) | 33AH | |
| Terminal Option | T5 | | |
| Container Material | Standard Option | ABS | |
| | Flame Retardant Option (FR) | ABS (UL94:VO) | |
| Rated Capacity | (20hr,1.65A,1.75V/cell) | 33.0 Ah | |
| | (10hr,3.12A,1.75V/cell) | 31.2 Ah | |
| | (5hr,5.68A,1.75V/cell) | 28.4 Ah | |
| | (3hr,8.42A,1.75V/cell) | 25.3 Ah | |
| | (1hr,21.0A,1.60V/cell) | 21.0 Ah | |
| Max Discharge Current (5s) | 495A | | |
| Internal Resistance | Approx. 12mΩ | | |
| Discharge Characteristics | Operating Temp. Range | Discharge: -15°C~50°C (5°F~122°F) | |
| | | Charge: 0°C~40°C (32°F~104°F) | |
| | | Storage: -15°C~40°C (5°F~104°F) | |
| | Nominal Operating Temp. Range | 25 ± 3°C (77 ± 5°F) | |
| | Cycle Use | Initial Charging Current less than 9.9A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C | |
| | Self Discharge | Initial Charging Current less than 9.9A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C | |
| | Capacity affected by Temperature | 40°C (104°F) | 103% |
| | | 25°C (77°F) | 100% |
| 0°C (32°F) | | 86% | |
| Design Floating Life at 20°C | 20+ Years | | |
| Self Discharge | Canbat Lead Acid AGM batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2% | | |

Dimensions

T5 Terminal



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12V 33AH

General Purpose Sealed Lead Acid Battery



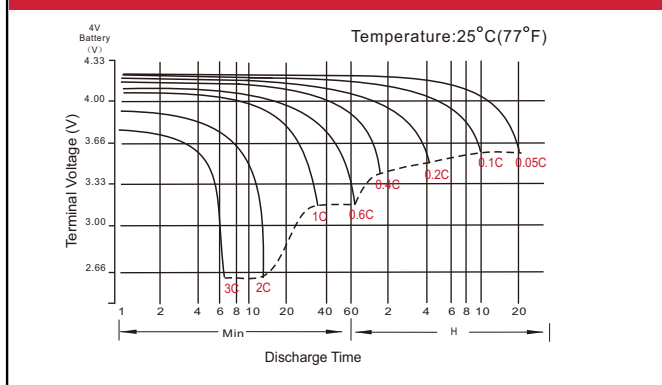
Constant Current Discharge (Amperes) at 25 °C (77 °F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 92.4 | 63.5 | 49.8 | 41.0 | 30.8 | 22.9 | 19.0 | 14.2 | 11.3 | 8.15 | 6.50 | 5.53 | 4.73 | 3.73 | 3.05 | 1.61 |
| 1.80V/cell | 99.3 | 67.3 | 52.2 | 42.7 | 31.7 | 23.5 | 19.5 | 14.5 | 11.5 | 8.29 | 6.59 | 5.61 | 4.81 | 3.78 | 3.09 | 1.63 |
| 1.75V/cell | 104.6 | 70.0 | 54.0 | 43.8 | 32.6 | 24.0 | 19.9 | 14.7 | 11.7 | 8.42 | 6.68 | 5.68 | 4.86 | 3.82 | 3.12 | 1.65 |
| 1.70V/cell | 109.6 | 72.9 | 55.8 | 45.1 | 33.4 | 24.5 | 20.3 | 15.0 | 11.9 | 8.54 | 6.77 | 5.76 | 4.92 | 3.86 | 3.15 | 1.66 |
| 1.67V/cell | 113.4 | 74.9 | 57.1 | 46.1 | 34.0 | 24.9 | 20.6 | 15.2 | 12.0 | 8.62 | 6.84 | 5.81 | 4.97 | 3.90 | 3.18 | 1.68 |
| 1.60V/cell | 120.3 | 78.1 | 59.1 | 47.4 | 34.9 | 25.5 | 21.0 | 15.5 | 12.3 | 8.78 | 6.96 | 5.90 | 5.04 | 3.95 | 3.22 | 1.69 |

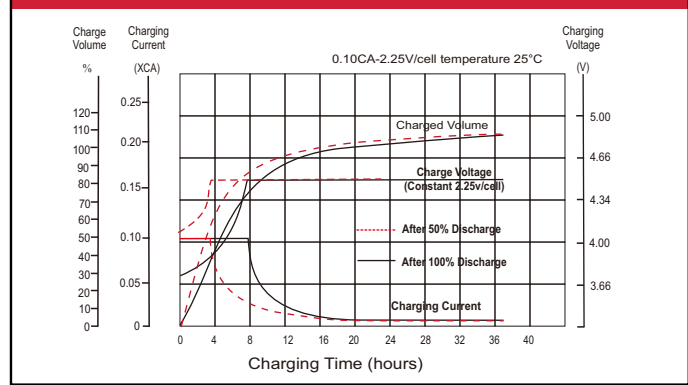
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 174.7 | 120.9 | 95.3 | 79.0 | 59.5 | 44.4 | 37.0 | 27.6 | 22.1 | 16.0 | 12.8 | 10.9 | 9.37 | 7.39 | 6.06 | 3.23 |
| 1.80V/cell | 186.1 | 127.3 | 99.4 | 81.7 | 61.1 | 45.4 | 37.8 | 28.1 | 22.5 | 16.3 | 13.0 | 11.1 | 9.50 | 7.49 | 6.14 | 3.26 |
| 1.75V/cell | 193.9 | 131.5 | 102.1 | 83.6 | 62.4 | 46.2 | 38.4 | 28.6 | 22.8 | 16.5 | 13.1 | 11.2 | 9.60 | 7.57 | 6.19 | 3.30 |
| 1.70V/cell | 201.1 | 135.8 | 104.8 | 85.5 | 63.7 | 47.1 | 39.0 | 29.0 | 23.1 | 16.7 | 13.3 | 11.3 | 9.70 | 7.64 | 6.25 | 3.33 |
| 1.67V/cell | 206.4 | 138.8 | 107.1 | 87.1 | 64.7 | 47.7 | 39.5 | 29.3 | 23.3 | 16.8 | 13.4 | 11.4 | 9.78 | 7.70 | 6.29 | 3.35 |
| 1.60V/cell | 214.7 | 142.9 | 110.0 | 89.2 | 66.1 | 48.6 | 40.2 | 29.8 | 23.7 | 17.1 | 13.6 | 11.6 | 9.89 | 7.80 | 6.37 | 3.39 |

Discharge Characteristics



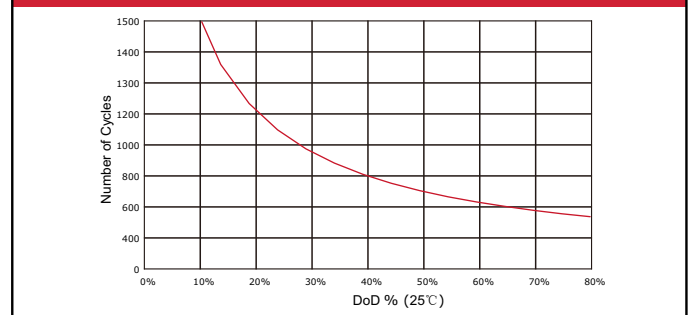
Float Charging Characteristics



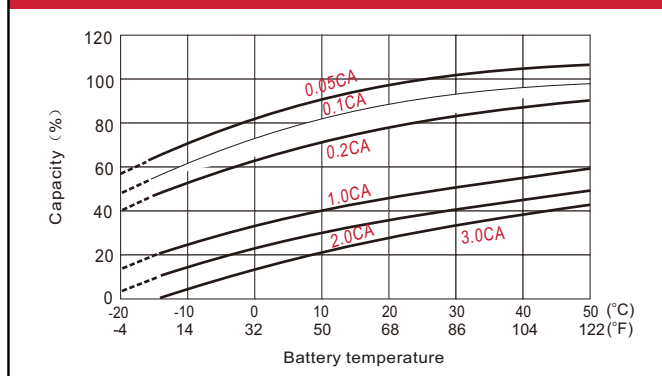
Valve-Regulated Sealed Lead Acid Batteries

Sealed lead acid batteries are engineered to provide reliable power in a compact design. They are spill-proof and require zero maintenance, as adding water is never necessary. The acid in the battery is suspended in a glass mat separator, which makes the cells leak-proof during normal battery operation. Our batteries are proudly designed in Canada with quality and performance in mind, offering one of the highest cycle life among other sealed lead acid battery brands. Canbat AGM batteries are manufactured with pure lead to ensure a low self-discharge rate of less than 2%, meaning stored batteries are only required a recharge once every six months. The series also features an outer container made from ABS material.

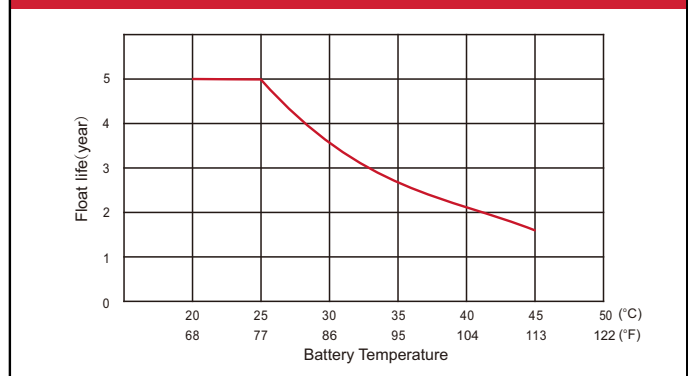
Cycle Life Relation o Depth of Discharge



Temperature Effects in Relation to Battery Capacity



Float Service Life



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