

CLC110-12FT

12V 110AH

Pure Lead Carbon

CANBAT

CLC110-12FT



Physical Specification

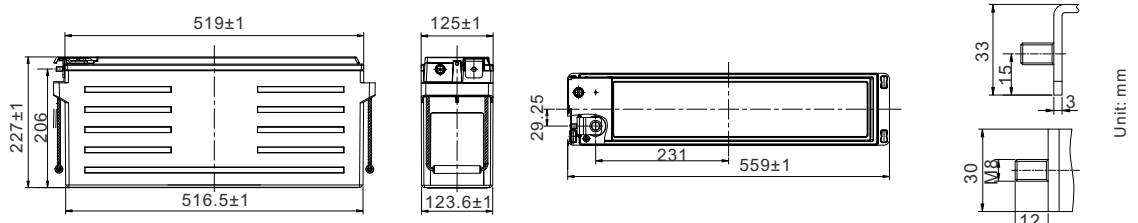
| | |
|-------------------------------|---------------------------|
| Part Number: | CLC110-12FT |
| Length: | 559 ± 2 mm (22.01 inches) |
| Width: | 125 ± 2 mm (4.92 inches) |
| Container Height: | 227 ± 2 mm (8.94 inches) |
| Total Height (with terminal): | 227 ± 2 mm (8.94 inches) |
| Approx Weight: | 36.5 kg (80.5 lbs) |

Specifications

| | | |
|----------------------------------|--|--|
| | Nominal Voltage | 12V |
| | Nominal Capacity (10HR) | 110AH |
| Terminal Type | Standard Terminal | M8 |
| | Optional Terminal | M6 |
| Container Material | Standard Option | ABS |
| | Flame Retardant Option (FR) | Non-halogenated, thermally sealed PPOI plastic casing & cover |
| Rated Capacity(35°) | 110Ah | (C10 to 1.80VDC @ 25°C) |
| | 110Ah | (C8 to 1.75VDC @ 25°C) |
| | 103.5Ah | (C5 to 1.75VDC @ 25°C) |
| | 95.1Ah | (C3 to 1.75VDC @ 25°C) |
| Max Charge Current (A) | 33.0A | |
| Max Discharge Current | 1320A | |
| Internal Resistance | Approx 4.0mΩ @ 25°C @ 1Khz | |
| Discharge Characteristics | Operating Temp. Range | Discharge: -40 ~ 65°C |
| | | Charge: 0 ~ 40°C |
| | | Storage: -20 ~ 40°C |
| | Nominal Operating Temp. Range | 25 ± 3°C (77 ± 5°F) |
| | Cycle Life | Exceptional PSoC cyclic performance 2500+ cycles at 50% Depth of Discharge (DoD) |
| | Features | Lead carbon added to negative electrodes increases power and reduces sulfation, leak-proof operation |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 79% |
| Design Floating Life at 20°C | 20+ Years | |
| Self Discharge | Canbat Pure Lead Carbon Batteries may be stored for up to 24 months at 25°C (°77F). For higher temperatures, the time interval will be shorter. A refresh charge is required when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first. | |

Dimensions

M8 Terminal



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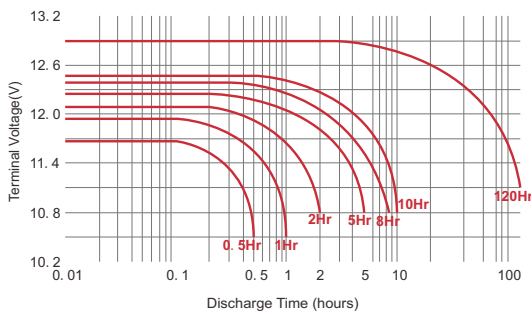
Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time | 10 min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 210.0 | 172.9 | 147.9 | 115.8 | 88.4 | 72.0 | 42.2 | 30.2 | 24.3 | 20.0 | 13.3 | 10.8 | 5.82 |
| 1.80V/cell | 233.2 | 189.4 | 160.4 | 124.0 | 93.4 | 75.6 | 43.5 | 31.0 | 24.8 | 20.4 | 13.5 | 11.0 | 5.95 |
| 1.75V/cell | 254.8 | 204.3 | 171.4 | 130.9 | 97.7 | 78.4 | 44.7 | 31.7 | 25.2 | 20.7 | 13.8 | 11.2 | 6.07 |
| 1.70V/cell | 274.2 | 217.0 | 180.7 | 136.7 | 101.1 | 80.6 | 45.6 | 32.0 | 25.5 | 21.0 | 13.9 | 11.3 | 6.16 |
| 1.67V/cell | 284.5 | 223.4 | 185.2 | 139.3 | 102.7 | 81.7 | 45.9 | 32.2 | 25.7 | 21.1 | 14.0 | 11.3 | 6.19 |
| 1.60V/cell | 303.3 | 234.2 | 192.2 | 143.2 | 104.7 | 83.2 | 46.5 | 32.7 | 26.1 | 21.3 | 14.2 | 11.6 | 6.25 |

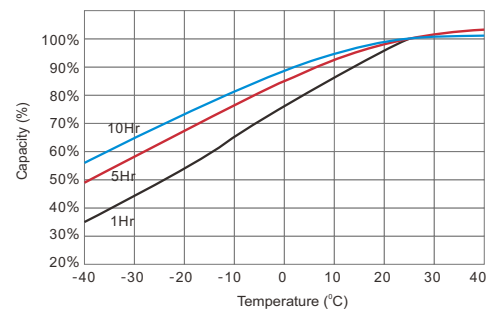
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 10 min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 397.7 | 326.5 | 280.8 | 217.6 | 170.5 | 139.6 | 82.6 | 59.4 | 47.9 | 39.7 | 26.3 | 21.5 | 11.6 |
| 1.80V/cell | 434.9 | 352.7 | 304.9 | 236.1 | 181.2 | 147.2 | 85.9 | 60.7 | 48.8 | 40.2 | 26.7 | 21.8 | 11.8 |
| 1.75V/cell | 469.0 | 376.1 | 322.7 | 247.8 | 188.3 | 152.1 | 87.9 | 61.7 | 49.6 | 40.8 | 27.0 | 22.1 | 12.0 |
| 1.70V/cell | 498.5 | 395.7 | 337.3 | 255.8 | 193.7 | 156.0 | 89.3 | 62.6 | 50.0 | 41.3 | 27.2 | 22.4 | 12.1 |
| 1.67V/cell | 513.6 | 405.2 | 344.2 | 260.6 | 196.3 | 157.6 | 90.0 | 63.0 | 50.3 | 41.5 | 27.3 | 22.5 | 12.2 |
| 1.60V/cell | 540.0 | 420.4 | 354.6 | 266.6 | 199.5 | 159.7 | 90.9 | 63.5 | 50.8 | 41.8 | 27.5 | 23.1 | 12.3 |

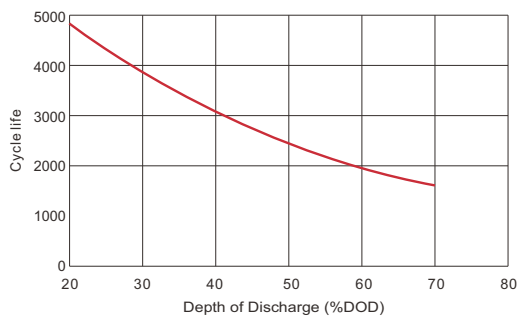
Discharge Characteristics



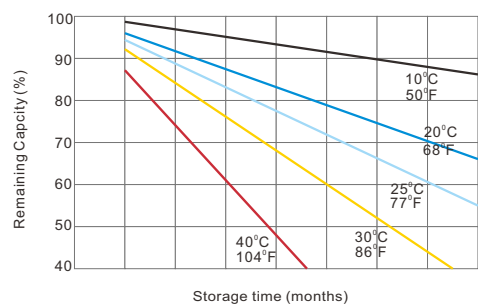
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



Features of Canbat Carbon Technology

- Exceptional PSoc cyclic performance 2500 cycles @50% DoD with a design life of 12+ years at 20°C (68°F)
- High modulus Polyphenylene Oxide (PPO) plastic, materials designed to withstand extended elevated operating temperatures.
- Flame retardant (UL 94 VO) and LOI of at least 28%
- Lead carbon added to negative electrodes increases power and reduces sulfation
- High potential fuel savings when used with hybrid genset applications
- Operating temperature range -40°C to +65°C (-40°F to 149°F)
- State-of-the-art automated manufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak-free operation - brass terminals provide maximum performance
- Non-halogenated thermally sealed plastic casing