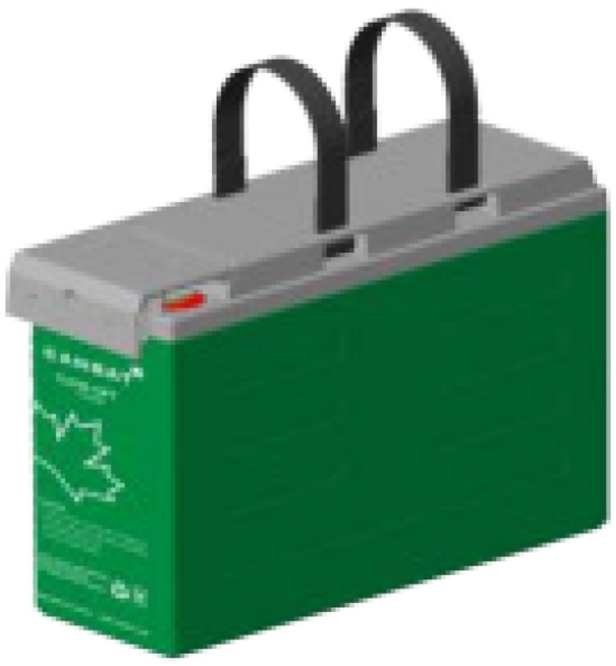
# CLC62-12FT

12V 62AH

**Pure Lead Carbon**

CANBAT

## CLC62-12FT



## Physical Specification

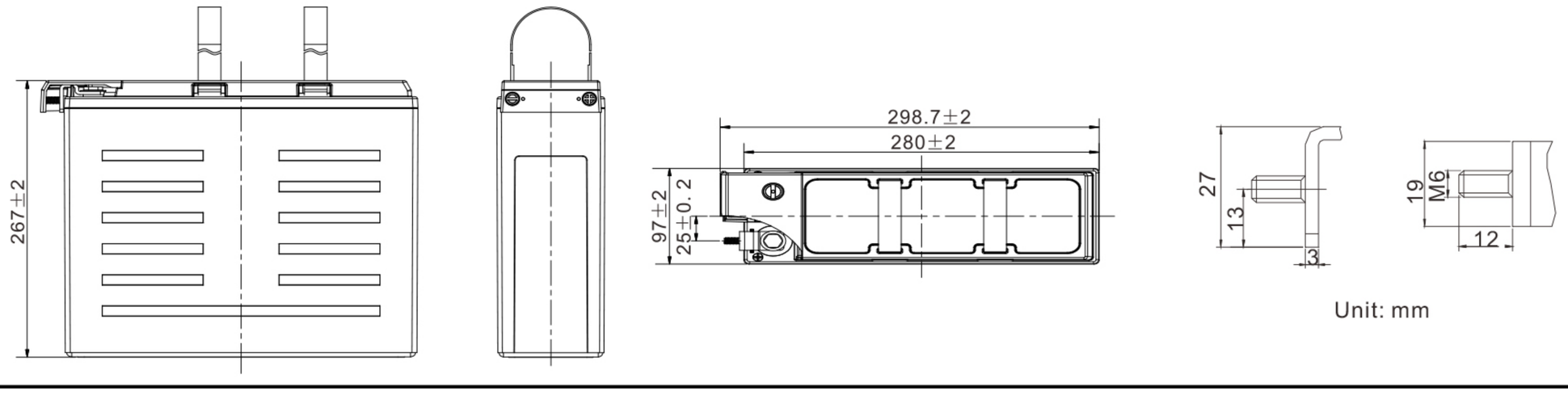
| | |
|---|---|
| Part Number: | **CLC62-12FT** |
| Length: | **299 ± 2 mm ( 11.76 inches )** |
| Width: | **97 ± 2 mm ( 3.82 inches )** |
| Container Height: | **267 ± 2 mm ( 10.51 inches )** |
| Total Height (with terminal): | **267 ± 2 mm ( 10.51 inches )** |
| Approx Weight: | **19.5 kg (43.0 lbs)** |

## Specifications

| | | |
|---|---|---|
| | Nominal Voltage | 12V |
| | Nominal Capacity (10HR) | 62AH |
| **Terminal Type** | Standard Terminal | M6 |
| | Optional Terminal | M8 |
| **Container Material** | Standard Option | ABS |
| | Flame Retardant Option (FR) | Non-halogenated, thermally sealed PPOI plastic casing & cover |
| **Rated Capacity(35°)** | 62.0Ah | (C10 to 1.80VDC @ 25°C) |
| | 62.0Ah | (C8 to 1.75VDC @ 25°C) |
| | 58.5Ah | (C5 to 1.75VDC @ 25°C) |
| | 53.1Ah | (C3 to 1.75VDC @ 25°C) |
| **Max Charge Current (A)** | 18.6A | |
| **Max Discharge Current** | 744A | |
| **Internal Resistance** | Approx 4.8mΩ @ 25°C @ 1Khz | |
| **Discharge Characteristics** | Operating Temp. Range | -40 ~ 65°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

### M6 Terminal




Unit: mm

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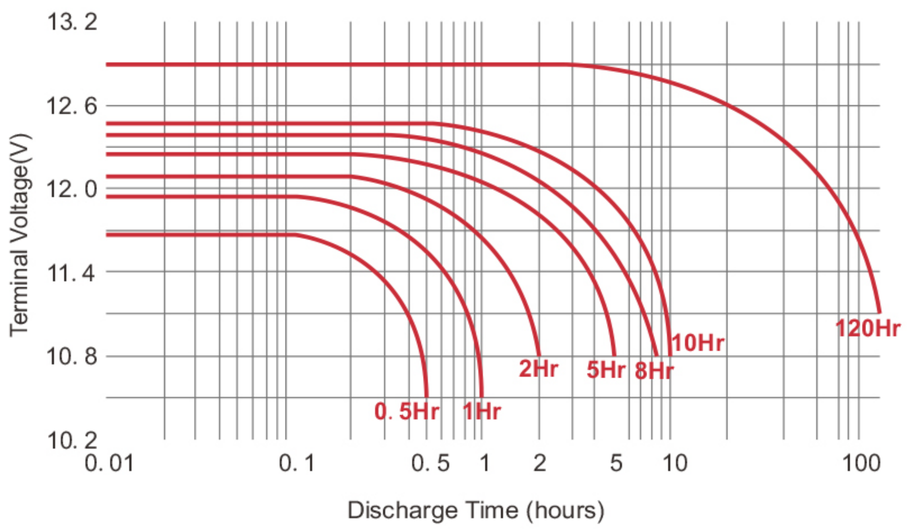
## Constant Current Discharge (Amperes) at 25 °C (77°F )

| F.V/Time | 10 min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 118.3 | 97.4 | 83.3 | 65.3 | 49.8 | 40.6 | 23.8 | 17.0 | 13.8 | 11.3 | 7.51 | 6.14 | 3.29 |
| 1.80V/cell | 130.0 | 105.6 | 89.5 | 69.1 | 52.1 | 42.1 | 24.3 | 17.3 | 14.0 | 11.5 | 7.65 | 6.20 | 3.37 |
| 1.75V/cell | 142.1 | 113.9 | 95.6 | 73.0 | 54.5 | 43.7 | 24.9 | 17.7 | 14.3 | 11.7 | 7.75 | 6.35 | 3.44 |
| 1.70V/cell | 152.9 | 121.0 | 100.7 | 76.2 | 56.4 | 45.0 | 25.4 | 17.9 | 14.5 | 11.9 | 7.85 | 6.41 | 3.49 |
| 1.67V/cell | 158.7 | 124.6 | 103.2 | 77.7 | 57.3 | 45.6 | 25.6 | 18.0 | 14.5 | 11.9 | 7.92 | 6.41 | 3.51 |
| 1.60V/cell | 169.2 | 130.5 | 107.2 | 79.8 | 58.4 | 46.4 | 25.9 | 18.3 | 14.7 | 12.1 | 8.06 | 6.54 | 3.53 |

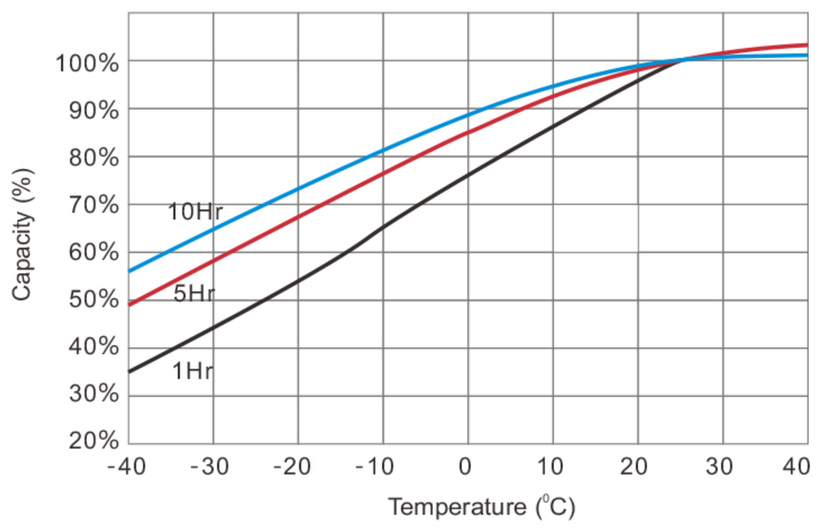
## Constant Power Discharge (Watts/cell) at 25 °C (77°F )

| F.V/Time | 10 min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 224.1 | 184.0 | 159.3 | 121.0 | 92.8 | 75.3 | 44.1 | 33.5 | 27.1 | 22.5 | 14.9 | 12.2 | 6.52 |
| 1.80V/cell | 241.4 | 195.1 | 168.3 | 126.8 | 94.3 | 76.8 | 45.1 | 33.9 | 27.6 | 22.7 | 15.0 | 12.4 | 6.70 |
| 1.75V/cell | 252.8 | 202.2 | 173.4 | 130.0 | 96.3 | 78.2 | 45.7 | 34.5 | 28.0 | 22.9 | 15.2 | 12.5 | 6.80 |
| 1.70V/cell | 263.8 | 209.1 | 178.3 | 133.1 | 96.7 | 78.4 | 46.3 | 34.9 | 28.4 | 23.1 | 15.4 | 12.6 | 6.87 |
| 1.67V/cell | 275.9 | 212.2 | 180.4 | 134.4 | 97.5 | 79.0 | 47.2 | 35.1 | 28.5 | 23.5 | 15.5 | 12.7 | 6.90 |
| 1.60V/cell | 284.7 | 217.6 | 182.6 | 136.6 | 98.8 | 79.9 | 47.5 | 35.4 | 28.8 | 23.7 | 15.6 | 13.1 | 6.92 |

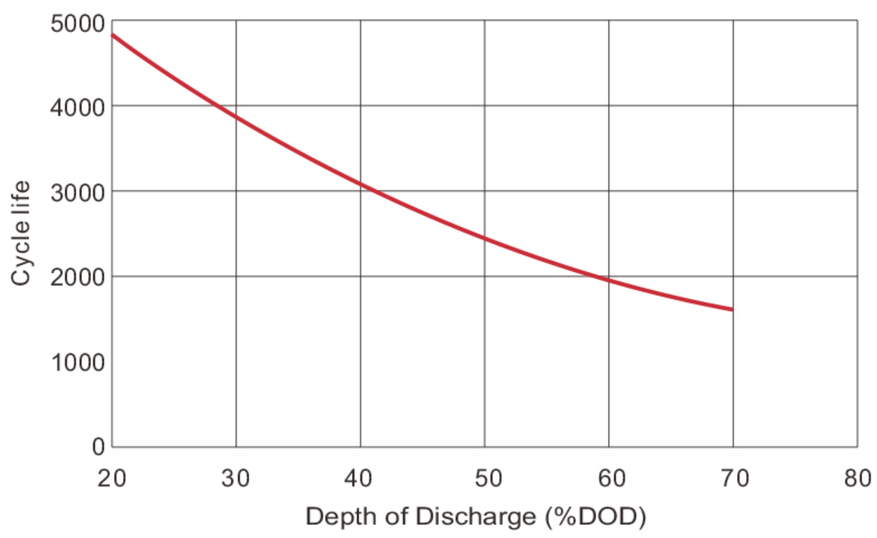
## Discharge Characteristics



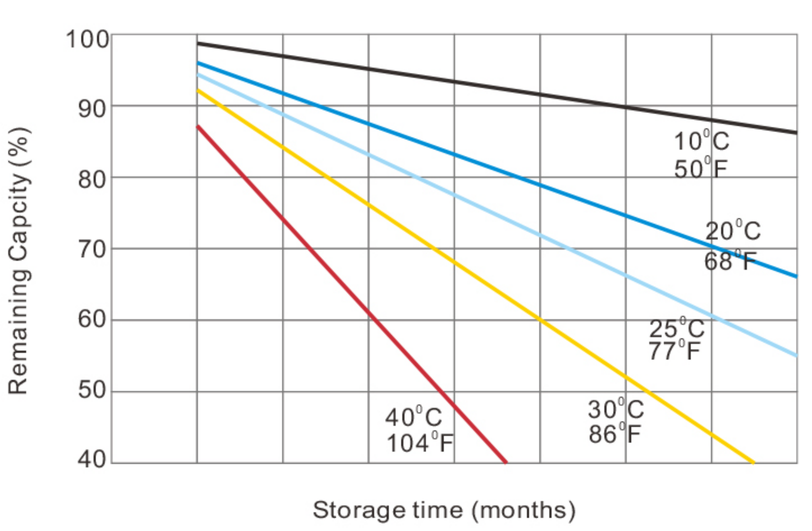

## Temperature in Relation to Capacity




## 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