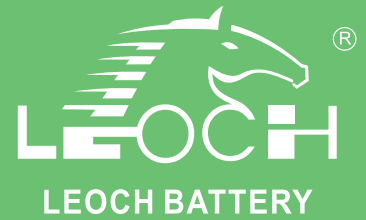




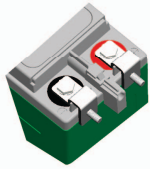
# PLH+C-Pure Lead Carbon

## PLH+C 62FT (12V62Ah)

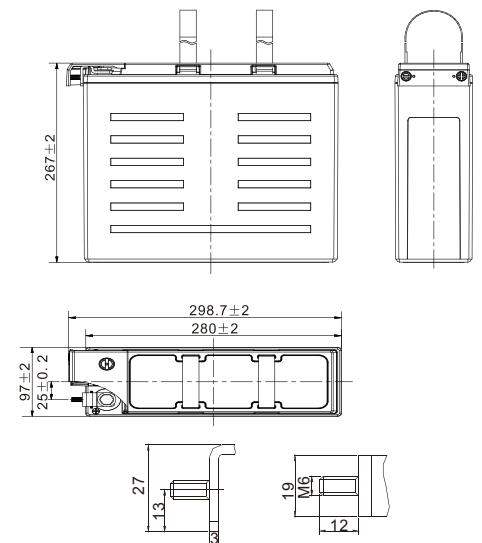


### Specifications

|                               |  |                           |
|-------------------------------|--|---------------------------|
| Rated Voltage                 | 12V  |                           |
| Nominal Capacity              | C <sub>10</sub> , 1.80V/cell   | 62Ah                      |
|                               | C <sub>8</sub> , 1.75V/cell  | 62Ah                      |
| Dimension                     | Length   | 298.7±2mm (11.76 inches)  |
|                               | Width  | 97±2mm (3.82 inches)      |
|                               | Container Height   | 267±2mm (10.51 inches)    |
|                               | Total Height   | 267±2mm (10.51 inches)    |
| Approx. Weight                | 19.5 Kg (43.0 lbs)   |                           |
| Terminal                      | M6   |                           |
| Container Material            | PC-ABS flame retardant jar and cover to UL94 V-0   |                           |
| Rated Capacity (25°C)         | 62.0 Ah  | (10hr, 6.20A, 1.80V/cell) |
|                               | 62.0 Ah  | (8hr, 7.75A, 1.75V/cell)  |
|                               | 58.5 Ah  | (5hr, 11.7A, 1.75V/cell)  |
|                               | 53.1 Ah  | (3hr, 17.7A, 1.75V/cell)  |
|                               | 45.6 Ah  | (1hr, 45.6A, 1.67V/cell)  |
| Max. Discharge Current        | 744A   |                           |
| Internal Resistance (25°C)    | Approx. 4.8mΩ(Fully charged)   |                           |
| Operating Temp. Range         | Discharge  | -40 ~ 65°C (-40 ~ 149°F)  |
|                               | Charge   | 0 ~ 54°C (32 ~ 129°F)     |
|                               | Storage  | -20 ~ 40°C (-4 ~ 104°F)   |
| Nominal Operating Temp. Range | 25±3°C (77±5°F)  |                           |
| Max. Charging Current(25°C)   | 18.6A  |                           |
| Charge voltage(25°C)          | Float  | 13.62V                    |
|                               | Temp. Coefficient  | -3mV/cell/°C              |
|                               | Equalization   | 14.1~14.4V                |
| Effect of temp. to Capacity   | 40°C (104°F)   | 103%                      |
|                               | 25°C (77°F)  | 100%                      |
|                               | 0°C (32°F)   | 86%                       |
| Self Discharge                | PLH+C series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter. Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first. |                           |



### Layout



Unit: mm

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

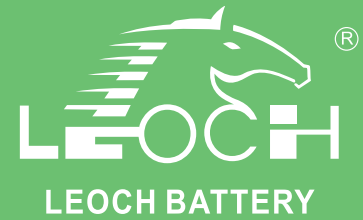
| F.V/Time   | 10 min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 118.3  | 97.4  | 83.3  | 65.3  | 49.8  | 40.6 | 23.8 | 17.0 | 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 |



# PLH+C-Pure Lead Carbon PLH+C 62FT (12V62Ah)



## Applications

- Backup Power
- Grid-connected Energy Storage System
- Off-grid Energy Storage System
- Demand charge reduction
- Time-of-Use bill management

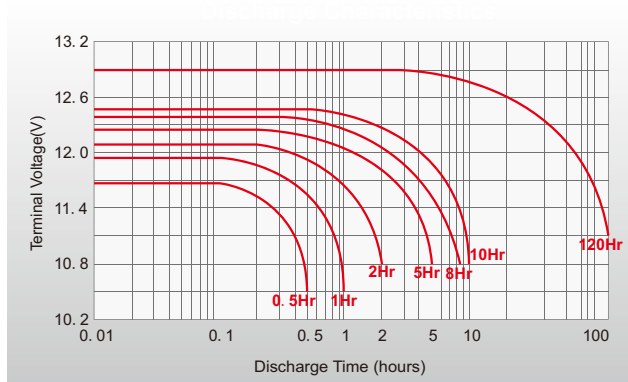
## General Features

- High energy density
- Low internal resistance and self-discharge rate
- Excellent fast charging acceptance: 1.5hour to 90% SOC
- Excellent high rate discharge performance in low temperature
- Super high PSoC cycle life

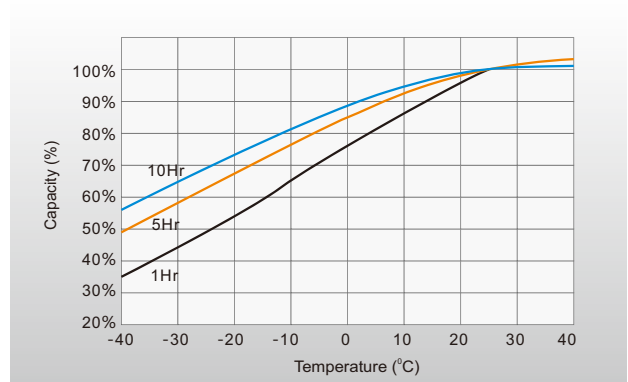
## Standards

- Compliance with IEC 60896 standards
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

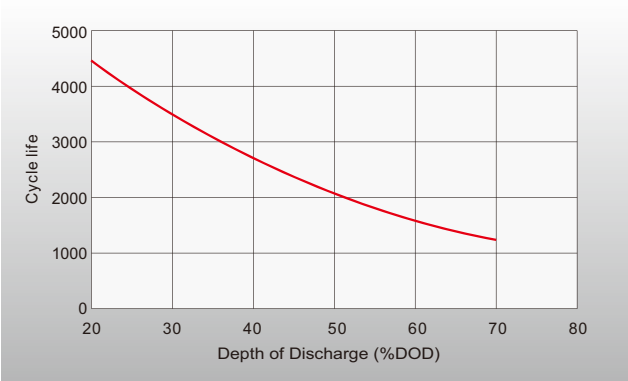
### Discharge Characteristics



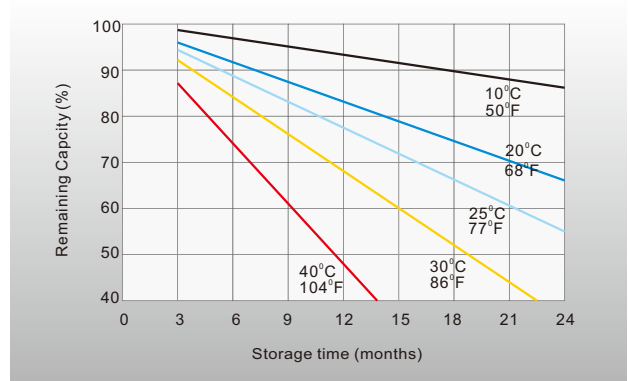
### Temperature in Relation to Capacity



### Cycle Life vs. Depth of Discharge



### Self-discharge Characteristics



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