

## PLH+C 150FT(12V150Ah)

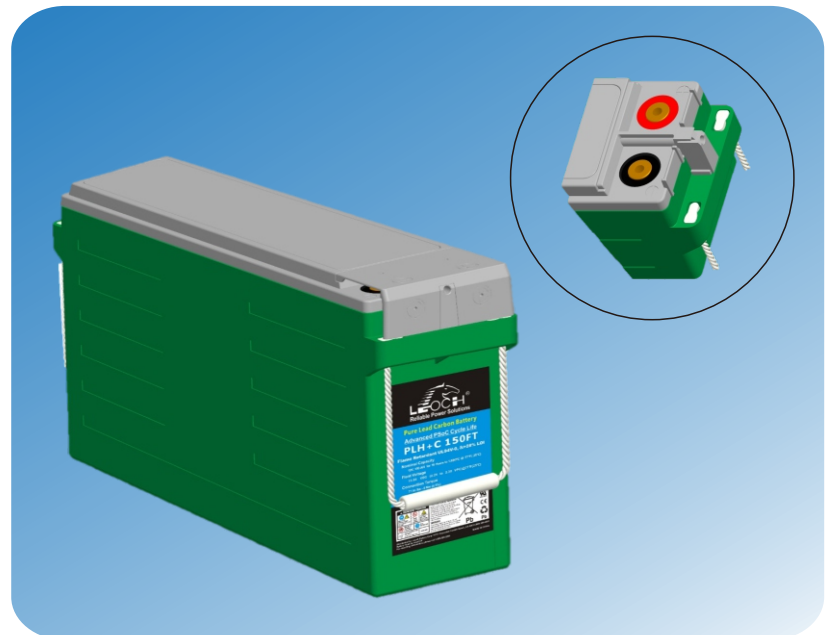
### PLH+C SERIES-LONG PSoC LIFE

#### Applications

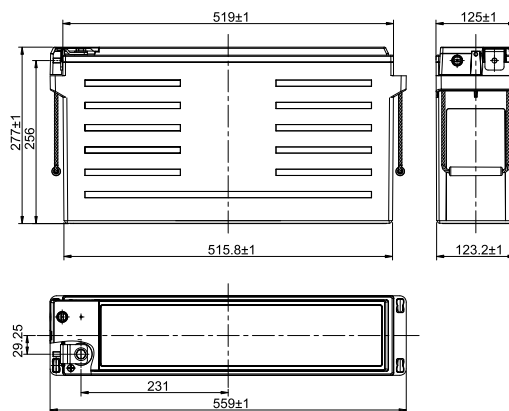
- UPS system
- Backup Power
- Demand charge reduction
- Time-of-Use bill management
- Increased PV self consumption
- Grid-Tied Energy Storage System
- Grid-Zero Energy Storage System

#### Key Features

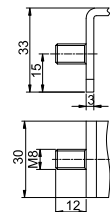
- High energy density
- High-rate performance
- Low internal resistance
- Low self-discharging rate
- Supper high PSoC cycle life
- Excellent Fast charging acceptance:  
1 hour to 90% SoC
- Excellent high rate discharge performance  
in low temperature
- Advanced lead acid batteries: Pure Lead  
Thin Plate Carbon Technology



#### Layout



#### Terminal



LEOCH INTERNATIONAL TECHNOLOGY LIMITED.

[www.leoch.com](http://www.leoch.com)

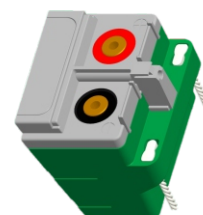
# Pure Lead Carbon Technology - PSoC Cycle



## PLH+C 150FT(12V150Ah) PLH+C SERIES-LONG PSoC LIFE

### Specification

|                                  |                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12V                                                                                                                                                                     |
| Rated Capacity (Ah)              | 10hr 150Ah @25 °C to 1.80V/cell                                                                                                                                         |
|                                  | 8hr 150Ah @25 °C to 1.75V/cell                                                                                                                                          |
| Dimension                        | Length 559±1mm (22.0 inches)                                                                                                                                            |
|                                  | Width 125±1mm (4.92 inches)                                                                                                                                             |
|                                  | Container Height 277±1mm (10.9 inches)                                                                                                                                  |
|                                  | Total Height (with Terminal) 277±1mm (10.9 inches)                                                                                                                      |
| Weight                           | Approx 48.0Kg (105.8 lbs)                                                                                                                                               |
| Terminal                         | T11                                                                                                                                                                     |
| Container Material               | PC-ABS flame retardant jar and cover to UL94V-0                                                                                                                         |
| Max. Discharge Current           | 1800A (5s)                                                                                                                                                              |
| Internal Resistance              | Approx 3.6mΩ                                                                                                                                                            |
| Operating Temp. Range            | Discharge : -40~65°C (-40~149°F)                                                                                                                                        |
|                                  | Charge : 0~40°C (32~104°F)                                                                                                                                              |
|                                  | Storage : -20~40°C (-4~104°F)                                                                                                                                           |
| Capacity affected by Temperature | 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) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |



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

| F. V/Time  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 270.5 | 227.4 | 197.0 | 155.6 | 119.6 | 97.6  | 58.0 | 41.7 | 32.6 | 26.9 | 17.9 | 14.7 | 8.01 |
| 1.80V/cell | 299.0 | 248.1 | 211.4 | 165.3 | 126.2 | 102.6 | 60.2 | 43.1 | 33.7 | 27.7 | 18.5 | 15.0 | 8.16 |
| 1.75V/cell | 323.3 | 264.8 | 223.6 | 172.7 | 130.5 | 105.8 | 61.5 | 43.9 | 34.3 | 28.2 | 18.8 | 15.3 | 8.32 |
| 1.70V/cell | 342.4 | 279.2 | 233.9 | 178.9 | 134.3 | 108.3 | 62.5 | 44.5 | 34.6 | 28.5 | 19.0 | 15.5 | 8.40 |
| 1.67V/cell | 351.5 | 286.3 | 239.0 | 182.0 | 135.9 | 109.4 | 62.9 | 44.7 | 34.9 | 28.7 | 19.1 | 15.6 | 8.48 |
| 1.60V/cell | 364.5 | 297.9 | 247.1 | 186.3 | 138.1 | 111.0 | 63.4 | 44.9 | 35.0 | 28.9 | 19.2 | 15.6 | 8.48 |

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

| F. V/Time  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.85V/cell | 542.0 | 459.6 | 399.8 | 319.1 | 247.1 | 202.7 | 119.8 | 85.8 | 67.1 | 55.2 | 36.3 | 29.6 | 15.7 |
| 1.80V/cell | 587.3 | 490.3 | 422.6 | 333.6 | 256.0 | 209.0 | 122.6 | 87.6 | 68.4 | 56.3 | 36.9 | 30.2 | 16.0 |
| 1.75V/cell | 627.8 | 517.3 | 442.2 | 345.9 | 263.6 | 214.2 | 124.8 | 89.0 | 69.4 | 57.1 | 37.5 | 30.7 | 16.2 |
| 1.70V/cell | 662.1 | 539.6 | 458.3 | 355.7 | 269.4 | 218.3 | 126.5 | 90.0 | 70.2 | 57.7 | 37.9 | 31.0 | 16.5 |
| 1.67V/cell | 679.1 | 550.5 | 466.1 | 360.4 | 272.1 | 220.1 | 127.2 | 90.4 | 70.5 | 57.9 | 38.1 | 31.2 | 16.6 |
| 1.60V/cell | 707.1 | 567.8 | 478.1 | 367.2 | 275.9 | 222.5 | 128.0 | 90.9 | 70.9 | 58.3 | 38.3 | 31.3 | 16.7 |

#### China Sales Office

5th Floor, Xinbaohui Bldg., Nanshai Blvd, Nanshan, Shenzhen, China. 518054  
Tel: +86-755-86036060(100 lines) Fax: +86-755-26067269  
E-mail: export@leoch.com

© 2018 LEOCH. All rights reserved.

Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.  
Subject to revisions without prior notice.