

Specification

| | | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(10HR) | 6.0AH | |
| Dimension | Length | 151 ± 1mm (5.95 inches) |
| | Width | 65 ± 1mm (2.56 inches) |
| | Container Height | 94.5 ± 1mm (3.72 inches) |
| | Total Height (with Terminal) | 100 ± 1mm (3.94 inches) |
| Approx Weight | Approx 2.30 Kg (5.07 lbs) | |
| Terminal | T1 / T2 | |
| Container Material | ABS | |
| Rated Capacity | 6.36AH/0.318A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 6.00AH/0.60A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 5.21AH/1.04A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 4.74AH/1.58A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 3.69AH/3.69A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 90A (5s) | |
| Internal Resistance | Approx 20.0mΩ | |
| Operating Temp. Range | Discharge : -15~50°C (5~122°F) | |
| | Charge : 0~40°C (32~104°F) | |
| | Storage : -15~40°C (5~104°F) | |
| Nominal Operating Temp. Range | 25 ± 3°C (77 ± 5°F) | |
| Cycle Use | Initial Charging Current less than 1.8A. Voltage | |
| | 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| Standby Use | No limit on Initial Charging Current 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% |
| Self Discharge | Leoch LPL series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



Applications

- ◆ UPS and EPS
- ◆ Emergency light
- ◆ Railway signal and aircraft signal system
- ◆ Marine and powerstations
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply, DC power supply



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

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 7.74 | 6.46 | 5.50 | 4.50 | 3.40 | 2.85 | 1.82 | 1.44 | 1.17 | 0.94 | 0.83 | 0.663 | 0.566 | 0.315 |
| 1.80V/cell | 9.89 | 7.80 | 6.51 | 5.31 | 3.96 | 3.19 | 1.99 | 1.55 | 1.25 | 1.01 | 0.89 | 0.704 | 0.600 | 0.318 |
| 1.75V/cell | 10.9 | 8.52 | 7.00 | 5.51 | 4.10 | 3.34 | 2.06 | 1.58 | 1.28 | 1.04 | 0.91 | 0.716 | 0.606 | 0.321 |
| 1.70V/cell | 11.8 | 9.10 | 7.36 | 5.73 | 4.27 | 3.45 | 2.14 | 1.62 | 1.31 | 1.07 | 0.93 | 0.726 | 0.612 | 0.327 |
| 1.65V/cell | 12.8 | 9.68 | 7.82 | 6.05 | 4.38 | 3.56 | 2.20 | 1.69 | 1.35 | 1.10 | 0.95 | 0.737 | 0.625 | 0.331 |
| 1.60V/cell | 13.9 | 10.3 | 8.33 | 6.39 | 4.56 | 3.69 | 2.28 | 1.74 | 1.40 | 1.13 | 0.97 | 0.745 | 0.631 | 0.333 |

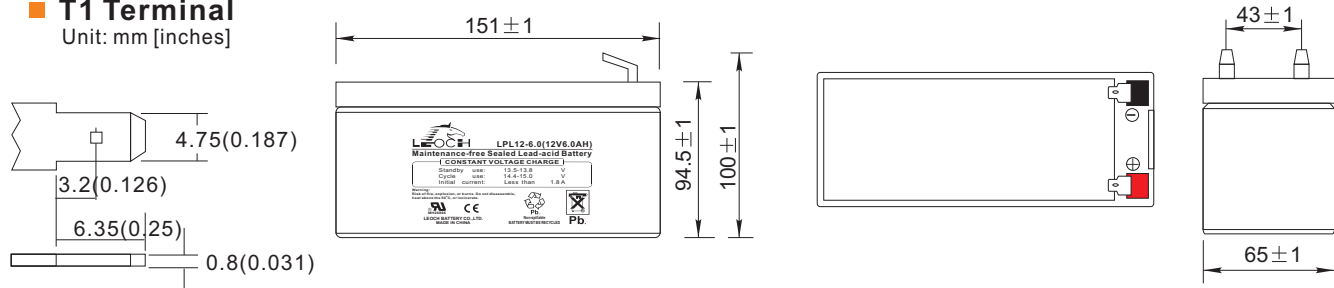
Constant Power Discharge (Watts) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 14.6 | 12.3 | 10.6 | 8.73 | 6.65 | 5.60 | 3.60 | 2.86 | 2.33 | 1.88 | 1.66 | 1.33 | 1.14 | 0.635 |
| 1.80V/cell | 18.4 | 14.6 | 12.3 | 10.1 | 7.68 | 6.24 | 3.90 | 3.06 | 2.47 | 2.01 | 1.77 | 1.41 | 1.21 | 0.640 |
| 1.75V/cell | 19.9 | 15.8 | 13.1 | 10.4 | 7.90 | 6.50 | 4.03 | 3.11 | 2.52 | 2.06 | 1.81 | 1.43 | 1.22 | 0.645 |
| 1.70V/cell | 21.2 | 16.6 | 13.7 | 10.8 | 8.18 | 6.68 | 4.18 | 3.19 | 2.58 | 2.11 | 1.85 | 1.45 | 1.23 | 0.657 |
| 1.65V/cell | 22.7 | 17.6 | 14.4 | 11.3 | 8.31 | 6.86 | 4.27 | 3.31 | 2.66 | 2.16 | 1.88 | 1.47 | 1.25 | 0.665 |
| 1.60V/cell | 24.1 | 18.5 | 15.2 | 11.9 | 8.62 | 7.07 | 4.40 | 3.39 | 2.73 | 2.23 | 1.92 | 1.48 | 1.26 | 0.667 |

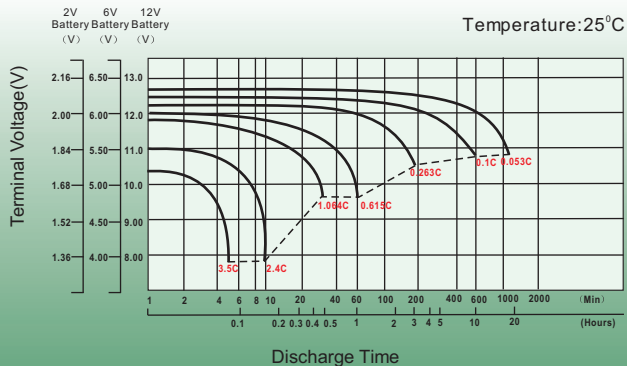
Dimensions

T1 Terminal

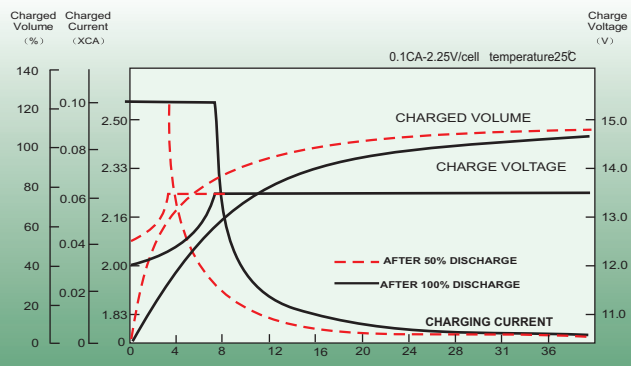
Unit: mm [inches]



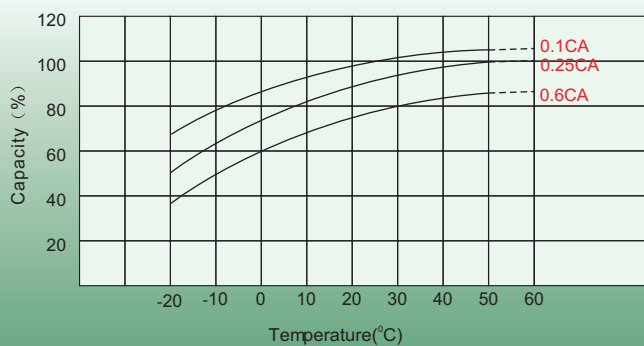
Discharge Characteristics



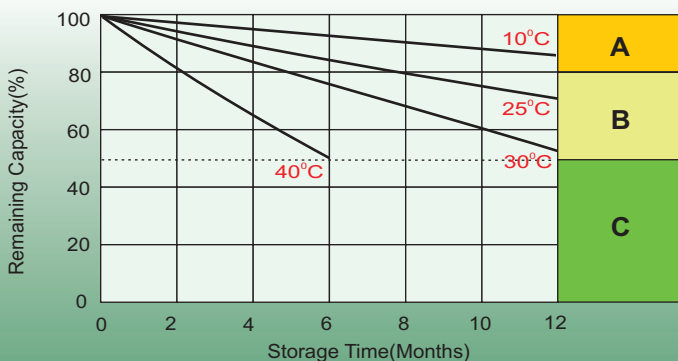
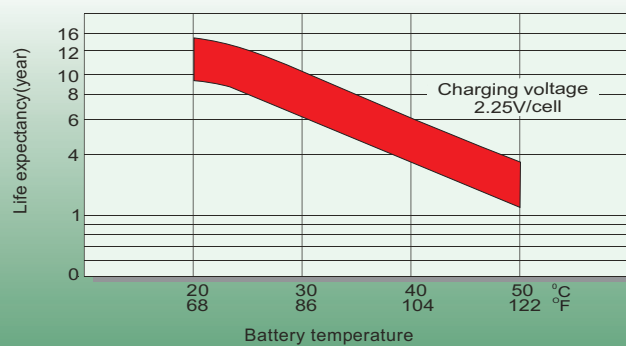
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office

China sales office:

Add: 5th Floor, Xinbaohui Bldg., Nanhai Blvd.,
Nanshan, Shenzhen, China. 518052
Tel: + 86-755-86036060 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com
Http://www.leoch.com

North Americasales office:

Add: 19751 Descartes, Unit A,
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us
Http://www.leoch.us

Europe sales office:

Add: LaCampaña House. Main Road.
Gloucester. GL2-8JH. United Kingdom
Tel: +44(0) 1452 751016
E-mail: Sales.Europe@leoch.com
Http://www.leoch.com