# LP SERIES-General Purpose

## LP6-7.2 (6V7.2AH)

## Specification

| | | |
|---|---|---|
| Nomial Voltage | 6V | |
| Nomial Capacity(20HR) | 7.2AH | |
| Dimension | Length | 151±1mm (5.94 inches) |
| | Width | 34±1mm (1.34 inches) |
| | Container Height | 94±1mm (3.70 inches) |
| | Total Height (with Terminal) | 100±1mm (3.94 inches) |
| Approx Weight | Approx 1.2 kg (2.65lbs) | |
| Terminal | T1 / T2 | |
| Container Material | ABS | |
| Rated Capacity | 7.20 AH/0.36A | (20hr ,1.80V/cell,25°C/77°F) |
| | 6.70 AH/0.67A | (10hr,1.80V/cell,25°C/77°F) |
| | 6.12 AH/1.22A | (5hr,1.75V/cell,25°C/77°F) |
| | 5.51 AH/1.84A | (3hr,1.75V/cell,25°C/77°F) |
| | 4.52 AH/4.52A | (1hr,1.60V/cell,25°C/77°F) |
| Max. Discharge Current | 108A (5s) | |
| Internal Resistance | Approx 12mΩ | |
| 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 than2.16A.Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C | |
| Standby Use | No limit on Initial Charging Current Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C ( 77°F) | 100% |
| | 0°C ( 32°F) | 86% |
| Self Discharge | Leoch LP series batterys 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

- *All purpose*
- *Uninterruptable Power Supply (UPS)*
- *Electric Power System (EPS)*
- *Emergency backup power supply*
- *Emergency light*
- *Railway signal*
- *Aircraft signal*
- *Alarm and security system*
- *Electronic apparatus and equipment*
- *Communication power supply*
- *DC power supply*
- *Auto control system*

VdS | Intertek ETL SEMKO MH26866 | ISO14001 | ISO9001 | CE EMC tested

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

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 13.7 | 10.5 | 8.72 | 7.54 | 5.83 | 4.30 | 3.62 | 2.14 | 1.68 | 1.36 | 1.11 | 0.96 | 0.777 | 0.649 | 0.356 |
| 1.80V/cell | 18.4 | 13.5 | 10.5 | 8.91 | 6.88 | 5.00 | 4.06 | 2.34 | 1.80 | 1.45 | 1.19 | 1.03 | 0.825 | 0.670 | 0.360 |
| 1.75V/cell | 20.8 | 14.8 | 11.5 | 9.59 | 7.14 | 5.18 | 4.24 | 2.42 | 1.84 | 1.49 | 1.22 | 1.06 | 0.839 | 0.688 | 0.364 |
| 1.70V/cell | 22.9 | 16.1 | 12.3 | 10.1 | 7.43 | 5.39 | 4.38 | 2.48 | 1.89 | 1.53 | 1.25 | 1.08 | 0.851 | 0.701 | 0.370 |
| 1.65V/cell | 25.2 | 17.4 | 13.1 | 10.7 | 7.84 | 5.53 | 4.48 | 2.52 | 1.97 | 1.58 | 1.29 | 1.11 | 0.864 | 0.716 | 0.375 |
| 1.60V/cell | 27.8 | 18.9 | 14.0 | 11.4 | 8.28 | 5.76 | 4.52 | 2.63 | 2.03 | 1.63 | 1.33 | 1.13 | 0.872 | 0.724 | 0.377 |

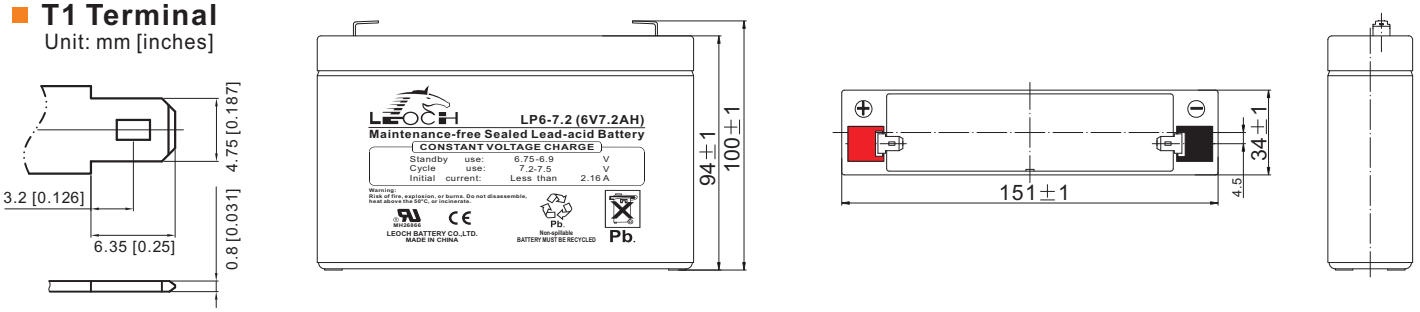
## Constant Power Discharge (Watts) at 25 °C (77°F )

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 25.1 | 19.4 | 16.3 | 14.2 | 11.1 | 8.26 | 6.98 | 4.16 | 3.27 | 2.66 | 2.18 | 1.90 | 1.53 | 1.29 | 0.706 |
| 1.80V/cell | 33.3 | 24.6 | 19.4 | 16.6 | 12.9 | 9.53 | 7.78 | 4.51 | 3.49 | 2.83 | 2.33 | 2.02 | 1.62 | 1.32 | 0.712 |
| 1.75V/cell | 36.7 | 26.6 | 20.9 | 17.6 | 13.3 | 9.79 | 8.10 | 4.66 | 3.54 | 2.88 | 2.38 | 2.07 | 1.65 | 1.36 | 0.718 |
| 1.70V/cell | 39.3 | 28.3 | 22.0 | 18.4 | 13.8 | 10.1 | 8.33 | 4.76 | 3.64 | 2.95 | 2.44 | 2.11 | 1.67 | 1.38 | 0.731 |
| 1.65V/cell | 42.8 | 30.2 | 23.2 | 19.4 | 14.4 | 10.3 | 8.46 | 4.80 | 3.78 | 3.04 | 2.49 | 2.15 | 1.69 | 1.41 | 0.740 |
| 1.60V/cell | 46.1 | 32.1 | 24.5 | 20.4 | 15.1 | 10.7 | 8.50 | 4.99 | 3.87 | 3.13 | 2.57 | 2.19 | 1.70 | 1.42 | 0.743 |

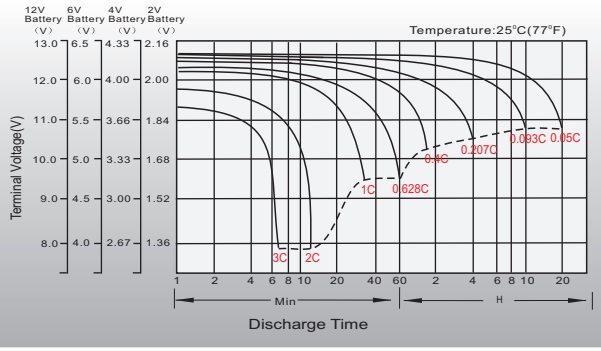
## Dimensions

### T1 Terminal

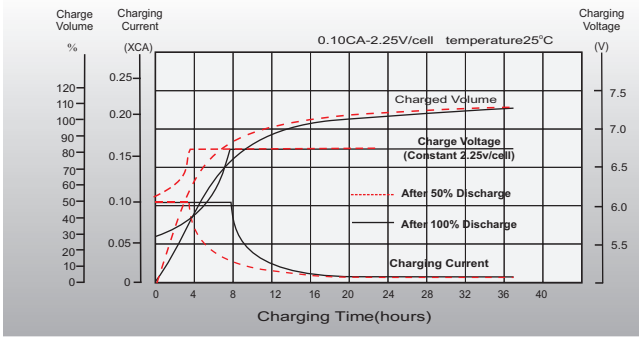
Unit: mm [inches]



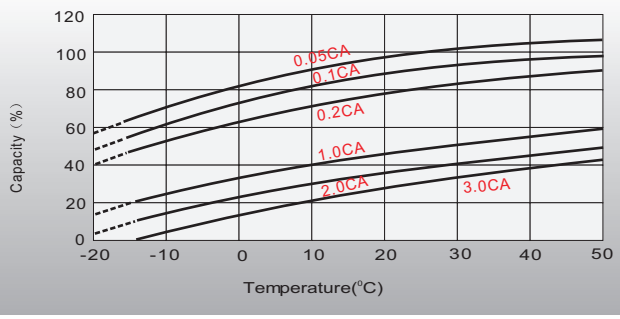

## Discharge Characteristics



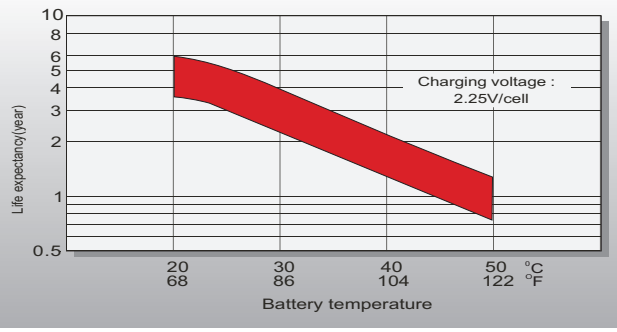

## Float Charging Characteristics



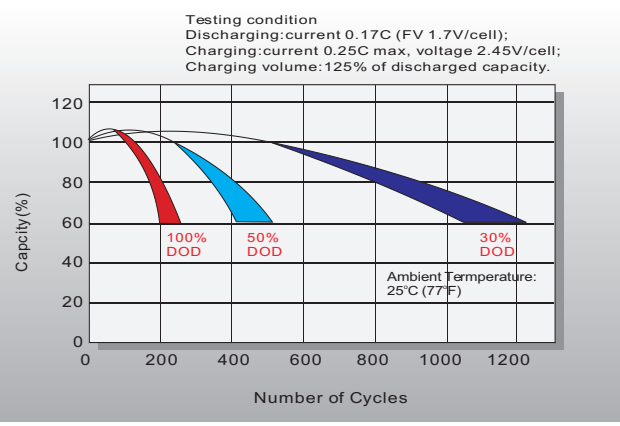

## Temperature Effects in Relation to Battery Capacity



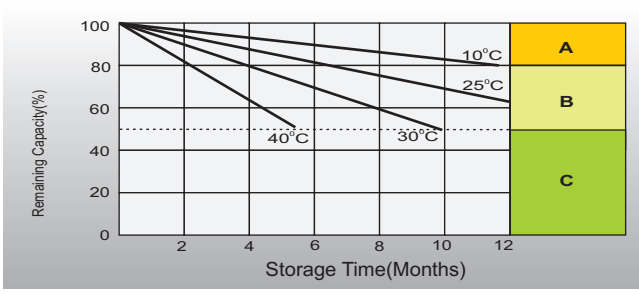

## Effect of Temperature on Long Term Float Life




## Cycle Life in Relation to Depth of Discharge




## 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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted 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:

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