

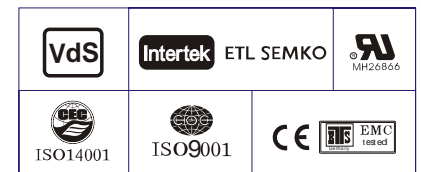
Specification

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity(10HR) | 13.0AH | |
| Dimension | Length | 152 ± 1mm (5.95 inches) |
| | Width | 51 ± 1mm (2.01 inches) |
| | Container Height | 94 ± 1mm (3.70 inches) |
| | Total Height (with Terminal) | 100 ± 2mm (3.94 inches) |
| | Approx Weight | Approx 2.05 Kg (4.52 lbs) |
| Terminal | T1 / T2 | |
| Container Material | ABS | |
| Rated Capacity | 13.9AH/0.70A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 13.0AH/1.30A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 11.4AH/2.28A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 10.3AH/3.45A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 8.40AH/8.40A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 195A (5s) | |
| Internal Resistance | Approx 12.0mΩ | |
| 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 3.9A. 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 LPC 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

- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golf cart
- ◆ Portable apparatus, lights and instruments;
- ◆ Electric toys
- ◆ Illumination light
- ◆ Fire alarms
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments.



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 | 19.0 | 16.0 | 14.0 | 10.1 | 8.00 | 6.49 | 4.03 | 3.14 | 2.55 | 2.07 | 1.81 | 1.47 | 1.23 | 0.690 |
| 1.80V/cell | 24.3 | 19.4 | 16.5 | 11.9 | 9.30 | 7.27 | 4.40 | 3.38 | 2.72 | 2.22 | 1.94 | 1.56 | 1.30 | 0.697 |
| 1.75V/cell | 26.7 | 21.1 | 17.8 | 12.3 | 9.65 | 7.61 | 4.56 | 3.45 | 2.78 | 2.28 | 1.99 | 1.59 | 1.31 | 0.703 |
| 1.70V/cell | 29.1 | 22.6 | 18.7 | 12.8 | 10.0 | 7.85 | 4.75 | 3.54 | 2.85 | 2.34 | 2.03 | 1.61 | 1.33 | 0.716 |
| 1.65V/cell | 31.4 | 24.0 | 19.9 | 13.5 | 10.3 | 8.11 | 4.88 | 3.69 | 2.95 | 2.40 | 2.07 | 1.64 | 1.35 | 0.725 |
| 1.60V/cell | 34.1 | 25.7 | 21.2 | 14.3 | 10.7 | 8.40 | 5.04 | 3.81 | 3.04 | 2.48 | 2.12 | 1.65 | 1.37 | 0.729 |

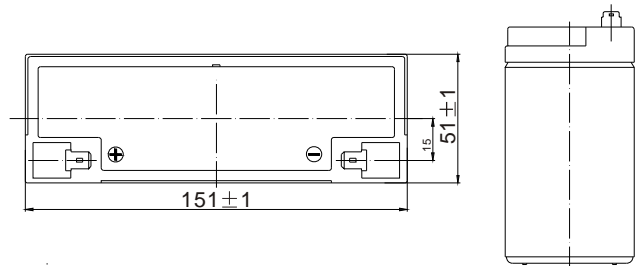
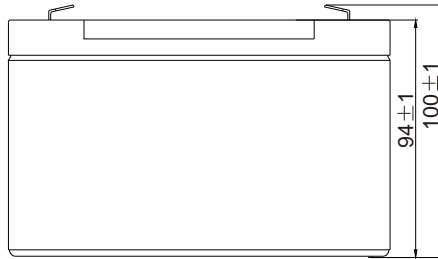
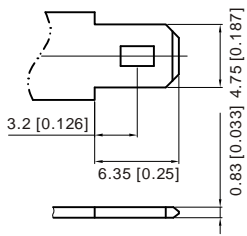
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 35.5 | 30.2 | 26.7 | 19.4 | 15.5 | 12.6 | 7.86 | 6.14 | 4.99 | 4.06 | 3.57 | 2.91 | 2.43 | 1.381 |
| 1.80V/cell | 44.8 | 35.9 | 31.0 | 22.6 | 17.8 | 14.0 | 8.52 | 6.58 | 5.30 | 4.35 | 3.81 | 3.09 | 2.57 | 1.392 |
| 1.75V/cell | 48.6 | 38.9 | 33.1 | 23.3 | 18.4 | 14.6 | 8.81 | 6.68 | 5.41 | 4.46 | 3.91 | 3.14 | 2.60 | 1.404 |
| 1.70V/cell | 52.2 | 41.2 | 34.6 | 24.2 | 19.1 | 15.0 | 9.14 | 6.85 | 5.54 | 4.56 | 3.98 | 3.18 | 2.62 | 1.429 |
| 1.65V/cell | 56.0 | 43.5 | 36.6 | 25.4 | 19.5 | 15.5 | 9.37 | 7.12 | 5.72 | 4.68 | 4.07 | 3.23 | 2.67 | 1.445 |
| 1.60V/cell | 59.7 | 46.0 | 38.6 | 26.5 | 20.2 | 15.9 | 9.63 | 7.30 | 5.87 | 4.81 | 4.15 | 3.25 | 2.70 | 1.451 |

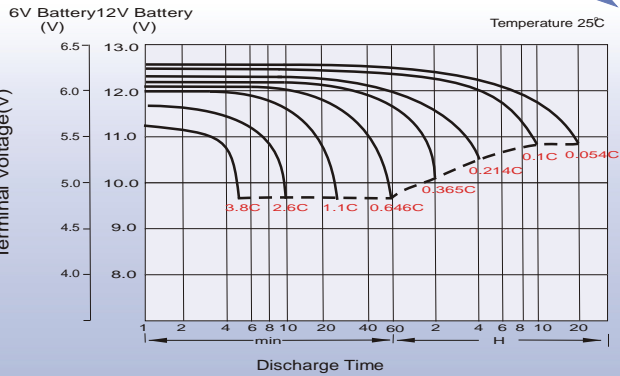
Dimensions

T1 Terminal

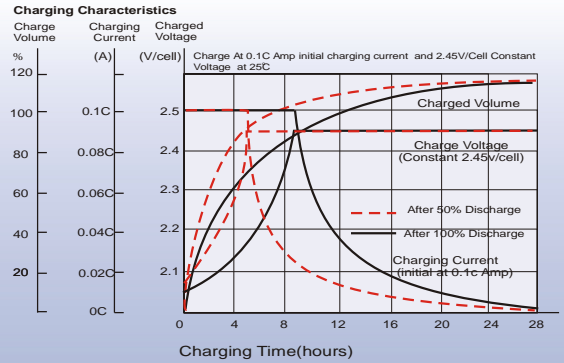
Unit: mm [inches]



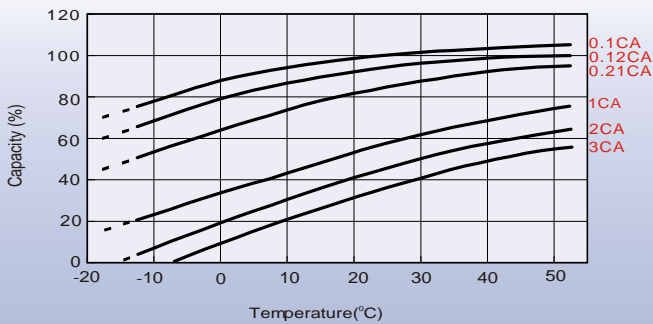
Discharge Characteristics



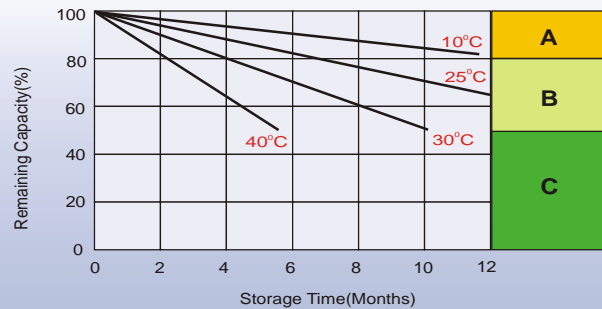
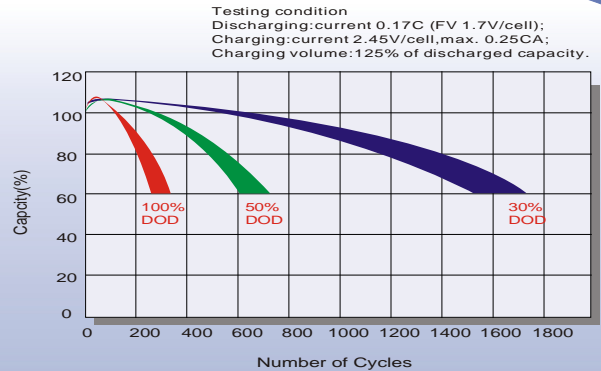
Charging Characteristics (cycle use)



Temperature Effects in Relation to Battery Capacity



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 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