

## LP12-6 (6V12AH)



| Specification                    |   |
|----------------------------------|---|
| Nominal Voltage                  | 6V  |
| Nominal Capacity(20HR)           | 12.0AH  |
| Dimensions                       | Length 151±2mm (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 1.80kg (3.97lbs)   |
| Terminal                         | T2  |
| Container Material               | ABS   |
| Rated Capacity                   | 12.0 AH/0.60A (20hr, 1.80V/cell, 25°C/77°F)   |
|                                  | 11.2 AH/1.12A (10hr, 1.80V/cell, 25°C/77°F)   |
|                                  | 10.2 AH/2.04A (5hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 9.2 AH/3.06A (3hr, 1.75V/cell, 25°C/77°F)   |
|                                  | 7.54AH/7.54A (1hr, 1.60V/cell, 25°C/77°F)   |
| Max. Discharge Current           | 180A (5s)   |
| Internal Resistance              | Approx 15mΩ   |
| 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 3.6A. 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                   | Nordström LP 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

- ◆ 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



### 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 | 22.9 | 17.5  | 14.5  | 12.6  | 9.72  | 7.16  | 6.03 | 3.57 | 2.79 | 2.27 | 1.85 | 1.61 | 1.30 | 1.08 | 0.594 |
| 1.80V/cell | 30.7 | 22.4  | 17.6  | 14.9  | 11.5  | 8.33  | 6.76 | 3.90 | 3.00 | 2.42 | 1.99 | 1.72 | 1.37 | 1.12 | 0.600 |
| 1.75V/cell | 34.6 | 24.6  | 19.2  | 16.0  | 11.9  | 8.64  | 7.07 | 4.04 | 3.06 | 2.48 | 2.04 | 1.77 | 1.40 | 1.15 | 0.606 |
| 1.70V/cell | 38.1 | 26.9  | 20.5  | 16.8  | 12.4  | 8.99  | 7.29 | 4.14 | 3.15 | 2.54 | 2.09 | 1.81 | 1.42 | 1.17 | 0.617 |
| 1.65V/cell | 42.0 | 29.0  | 21.8  | 17.8  | 13.1  | 9.21  | 7.46 | 4.20 | 3.28 | 2.63 | 2.15 | 1.85 | 1.44 | 1.19 | 0.625 |
| 1.60V/cell | 46.3 | 31.5  | 23.3  | 19.0  | 13.8  | 9.60  | 7.54 | 4.38 | 3.38 | 2.71 | 2.22 | 1.89 | 1.45 | 1.21 | 0.629 |

### Constant Power Discharge (Watts/cell) 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 | 41.8 | 32.4  | 27.1  | 23.7  | 18.5  | 13.8  | 11.6 | 6.93 | 5.44 | 4.44 | 3.63 | 3.16 | 2.56 | 2.14 | 1.18 |
| 1.80V/cell | 55.5 | 40.9  | 32.3  | 27.6  | 21.5  | 15.9  | 13.0 | 7.51 | 5.82 | 4.71 | 3.88 | 3.37 | 2.71 | 2.21 | 1.19 |
| 1.75V/cell | 61.2 | 44.3  | 34.9  | 29.4  | 22.2  | 16.3  | 13.5 | 7.76 | 5.91 | 4.80 | 3.97 | 3.46 | 2.75 | 2.26 | 1.20 |
| 1.70V/cell | 65.6 | 47.1  | 36.7  | 30.7  | 22.9  | 16.9  | 13.9 | 7.94 | 6.06 | 4.92 | 4.06 | 3.52 | 2.78 | 2.31 | 1.22 |
| 1.65V/cell | 71.3 | 50.4  | 38.7  | 32.3  | 24.0  | 17.2  | 14.1 | 8.01 | 6.29 | 5.07 | 4.16 | 3.59 | 2.82 | 2.35 | 1.23 |
| 1.60V/cell | 76.8 | 53.5  | 40.8  | 34.1  | 25.2  | 17.8  | 14.2 | 8.31 | 6.45 | 5.21 | 4.28 | 3.65 | 2.84 | 2.37 | 1.24 |

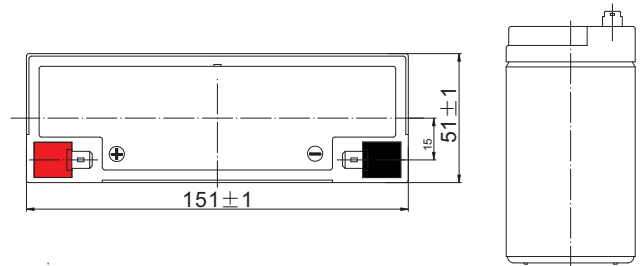
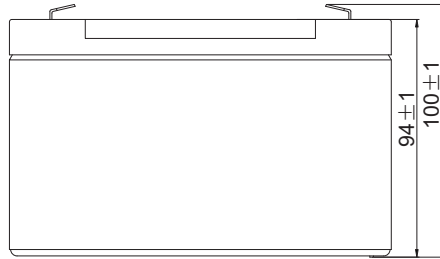
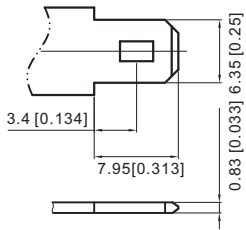
Specifications subject to change without notice.



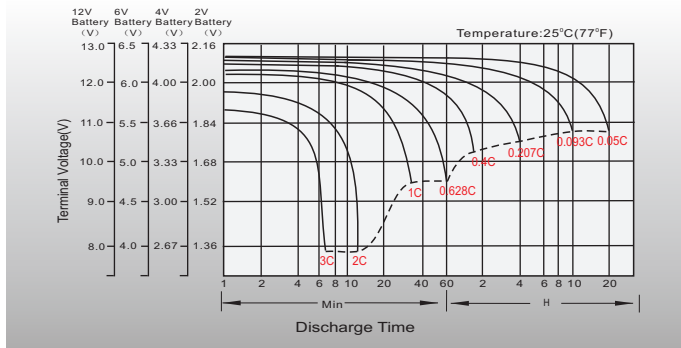
# Dimensions

## T2 Terminal

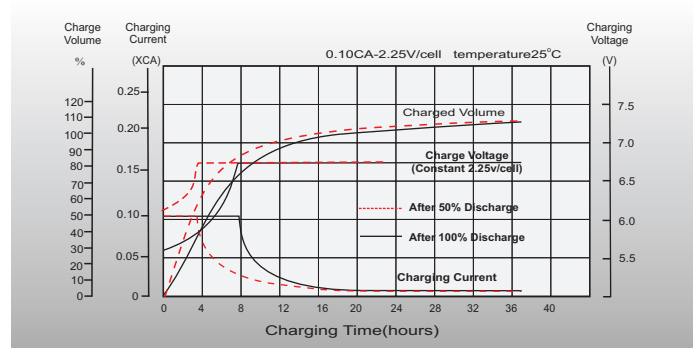
Unit: mm [inches]



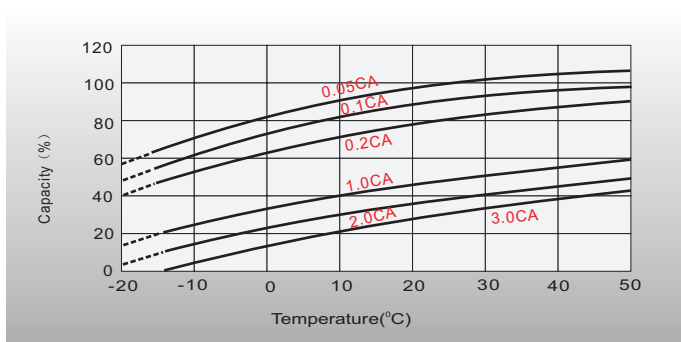
## Discharge Characteristics



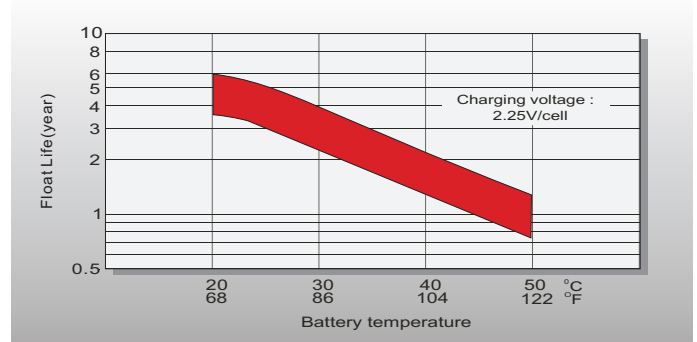
## Float Charging Characteristics



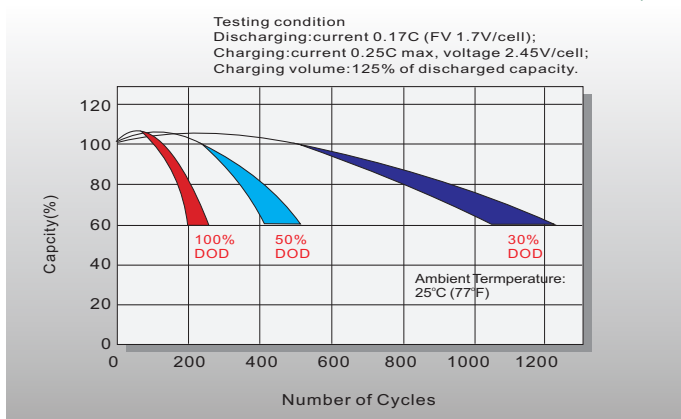
## Temperature Effects in Relation to Battery Capacity



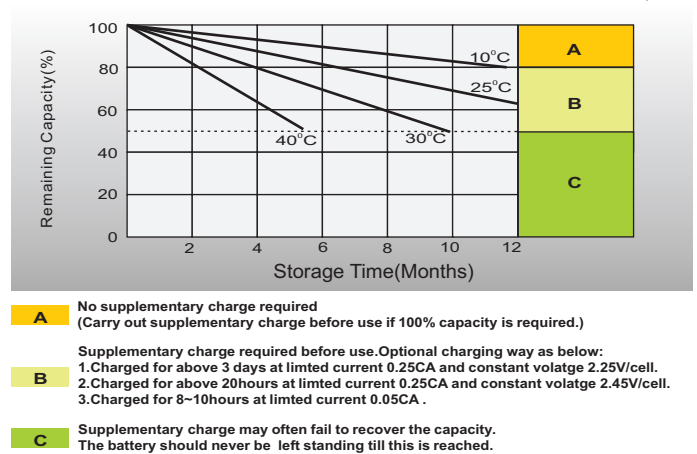
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Sales Office