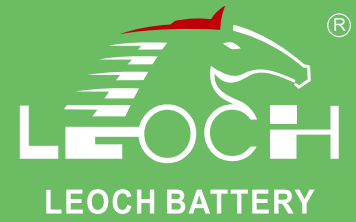




# LPC Series-Cycle Application

## LPC12-12(12V12Ah)

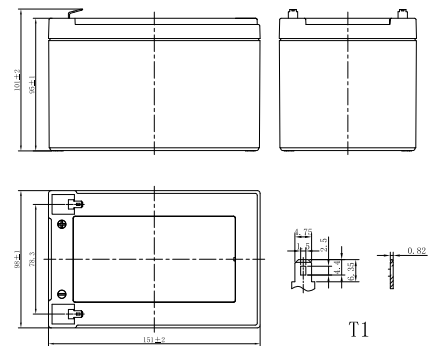


### Specifications

|  |                    |                           |                  |
|--|--------------------|---------------------------|------------------|
| Rated Voltage                                | 12V                |                           |                  |
| Rated Capacity(C <sub>20</sub> , 1.75V/cell) | 12Ah               |                           |                  |
| Dimensions                                   | Length             | 151±2mm (5.95 inches)     |                  |
|  | Width              | 98±1mm (3.86 inches)      |                  |
|  | Container Height   | 95±1mm (3.74 inches)      |                  |
|  | Total Height       | 101±2mm (3.98 inches)     |                  |
| Approx Weight                                | 3.43 Kg (7.56 lbs) |                           |                  |
| Terminal                                     | T1/T2              |                           |                  |
| Container Material                           | ABS                |                           |                  |
| Nominal Capacity(25°C)                       | 11.3Ah             | (10hr, 1.13A, 1.75V/cell) |                  |
|  | 10.2Ah             | (5hr, 2.07A, 1.75V/cell)  |                  |
|  | 9.18Ah             | (3hr, 3.06A, 1.75V/cell)  |                  |
|  | 8.52Ah             | (2hr, 4.26A, 1.75V/cell)  |                  |
|  | 7.60Ah             | (1hr, 7.60A, 1.70V/cell)  |                  |
| Short Circuit Current                        | 336A               |                           |                  |
| Internal Resistance(25°C)                    | ≤16mΩ              |                           |                  |
| Operating Temp. Range                        | Discharge          | -20 ~ 55°C (-4 ~ 131°F)   |                  |
|  | Charge             | 0 ~ 40°C (32 ~ 104°F)     |                  |
|  | Storage            | -20 ~ 50°C (-4 ~ 122°F)   |                  |
| Nominal Operating Temp. Range                | 25±3°C (77±5°F)    |                           |                  |
| Max.Charging Current(25°C)                   | 3.0A               |                           |                  |
| Charge voltage(25°C)                         | Charge Voltage     | Temp. Coefficient         |                  |
|  | Float              | 2.25~2.30V/cell           | -3mV/cell/°C     |
| Effect of temp. to Capacity                  | Cycle              | 2.35~2.45V/cell           | -5mV/cell/°C     |
|  | 40°C (104°F)       |                           | 106%             |
|  | 25°C (77°F)        |                           | 100%             |
| Self Discharge                               | 0°C (32°F)         |                           | 80%              |
|  |                    |                           | ≤3%/month @ 25°C |



### Layout



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

| F.V/Time   | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h   |
|------------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 7.14 | 4.11 | 2.96 | 2.36 | 2.01 | 1.72 | 1.36 | 1.11 | 0.587 |
| 1.80V/cell | 7.31 | 4.18 | 3.01 | 2.40 | 2.04 | 1.75 | 1.38 | 1.12 | 0.593 |
| 1.75V/cell | 7.46 | 4.26 | 3.06 | 2.43 | 2.07 | 1.77 | 1.39 | 1.13 | 0.600 |
| 1.70V/cell | 7.60 | 4.32 | 3.11 | 2.46 | 2.09 | 1.79 | 1.41 | 1.15 | 0.605 |

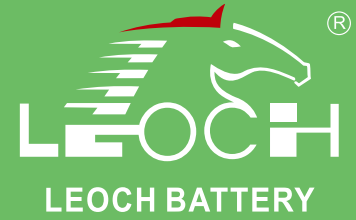
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time   | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 13.9 | 8.04 | 5.83 | 4.65 | 3.97 | 3.41 | 2.69 | 2.20 | 1.17 |
| 1.80V/cell | 14.2 | 8.17 | 5.91 | 4.71 | 4.02 | 3.45 | 2.73 | 2.23 | 1.19 |
| 1.75V/cell | 14.4 | 8.30 | 5.99 | 4.77 | 4.07 | 3.49 | 2.75 | 2.25 | 1.20 |
| 1.70V/cell | 14.6 | 8.40 | 6.07 | 4.83 | 4.12 | 3.53 | 2.78 | 2.27 | 1.21 |



# LPC Series-Cycle Application

## LPC12-12(12V12Ah)



### Applications

- Electric tools
- Mobility Scooter
- Golf trolleys
- Portable lights and instruments
- Electric toys
- Portable power
- Electric wheelchair

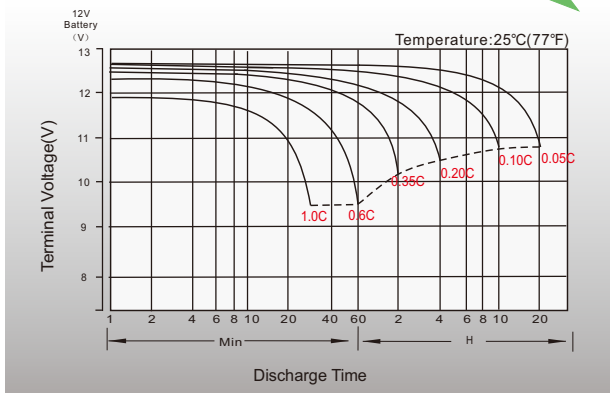
### General Features

- Good cyclic property. Enhanced overcharge endurance and overdischarge recovery property
- Using oxygen recombination technology: maintenance-free
- Lower acid density, excess of electrolyte and larger distance between plates to keep battery at low temperature and slow down plate grid corrosion speed
- Unique plate group configuration, high quality AGM separator and battery management system ensure battery with a longer service life

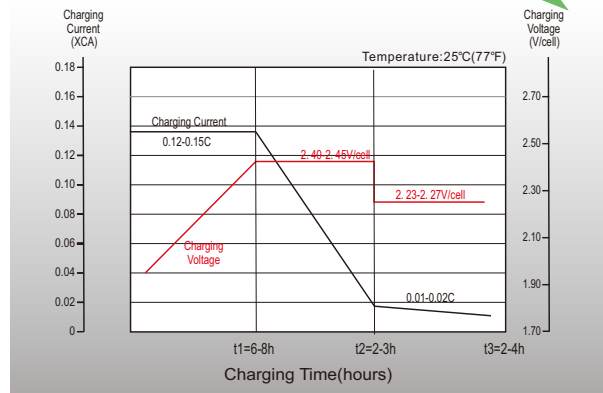
### Standards

- ACC. to BCI standards
- Manufactured in Leoch® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

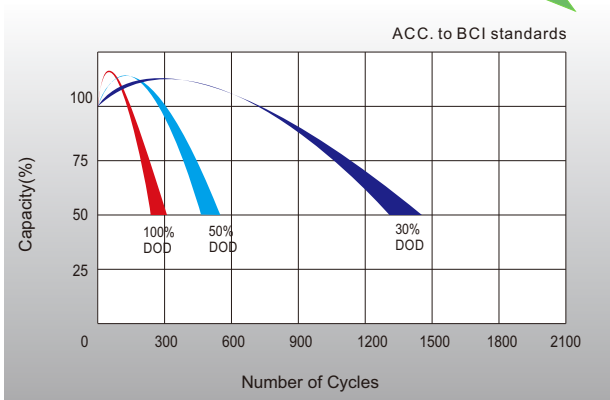
### Discharge Characteristics



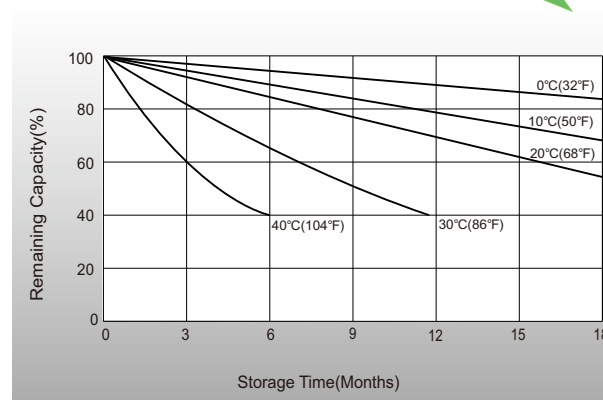
### Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



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