



### Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	3.5AH	
Dimension	Length	134 ± 1mm (5.28 inches)
	Width	67 ± 1mm (2.64 inches)
	Container Height	60.5 ± 1mm (2.38 inches)
	Total Height (with Terminal)	66.5 ± 1mm (2.62 inches)
Approx Weight	Approx 1.35 Kg (2.98 lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	3.75 AH/0.19A	(20hr, 1.80V/cell, 25°C/77°F)
	3.50 AH/0.35A	(10hr, 1.80V/cell, 25°C/77°F)
	3.07 AH/0.61A	(5hr, 1.75V/cell, 25°C/77°F)
	2.78 AH/0.93A	(3hr, 1.75V/cell, 25°C/77°F)
	2.26 AH/2.26A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	52.5A (5s)	
Internal Resistance	Approx 45.0mΩ	
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 1.05A. 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 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	5.12	4.31	3.77	2.71	2.15	1.75	1.09	0.85	0.69	0.56	0.49	0.397	0.330	0.186
1.80V/cell	6.55	5.21	4.45	3.20	2.50	1.96	1.18	0.91	0.73	0.60	0.52	0.421	0.350	0.188
1.75V/cell	7.19	5.69	4.79	3.32	2.60	2.05	1.23	0.93	0.75	0.61	0.54	0.428	0.354	0.189
1.70V/cell	7.84	6.08	5.04	3.46	2.70	2.11	1.28	0.95	0.77	0.63	0.55	0.434	0.357	0.193
1.65V/cell	8.46	6.46	5.35	3.65	2.77	2.18	1.31	0.99	0.79	0.65	0.56	0.441	0.364	0.195
1.60V/cell	9.19	6.91	5.70	3.85	2.89	2.26	1.36	1.02	0.82	0.67	0.57	0.445	0.368	0.196

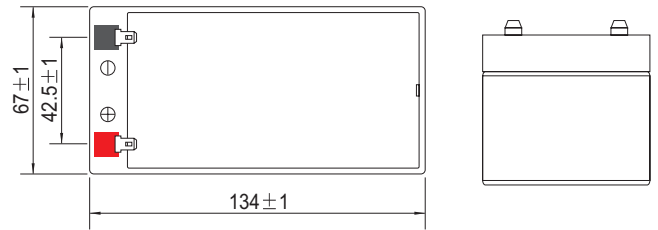
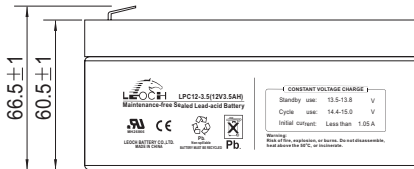
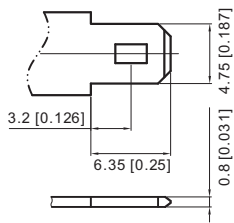
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.56	8.13	7.18	5.21	4.17	3.39	2.12	1.65	1.34	1.09	0.96	0.785	0.654	0.372
1.80V/cell	12.1	9.68	8.36	6.07	4.81	3.78	2.29	1.77	1.43	1.17	1.03	0.831	0.693	0.375
1.75V/cell	13.1	10.5	8.92	6.27	4.96	3.94	2.37	1.80	1.46	1.20	1.05	0.845	0.699	0.378
1.70V/cell	14.1	11.1	9.32	6.50	5.15	4.05	2.46	1.84	1.49	1.23	1.07	0.856	0.705	0.385
1.65V/cell	15.1	11.7	9.85	6.83	5.26	4.17	2.52	1.92	1.54	1.26	1.09	0.869	0.719	0.389
1.60V/cell	16.1	12.4	10.4	7.14	5.43	4.29	2.59	1.97	1.58	1.29	1.12	0.876	0.726	0.391

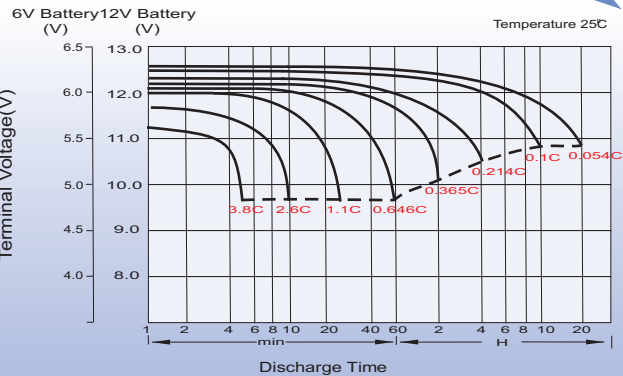
## Dimensions

### T1 Terminal

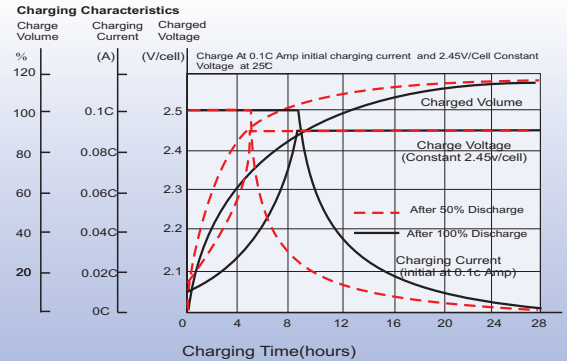
Unit: mm [inches]



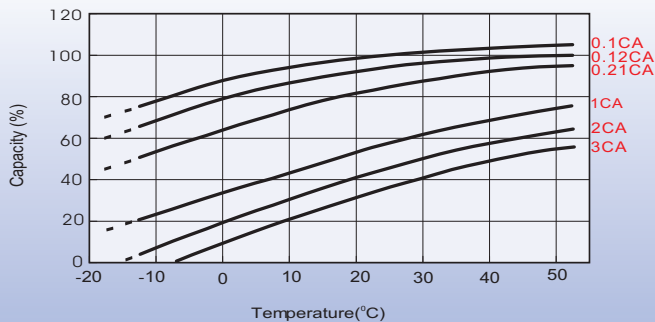
## Discharge Characteristics



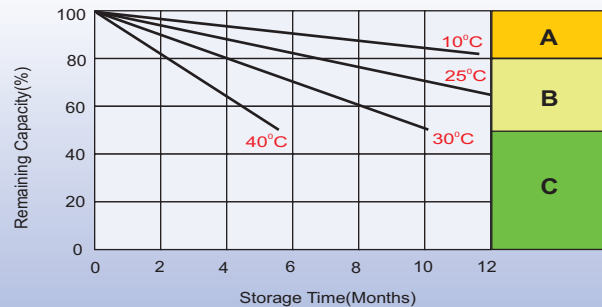
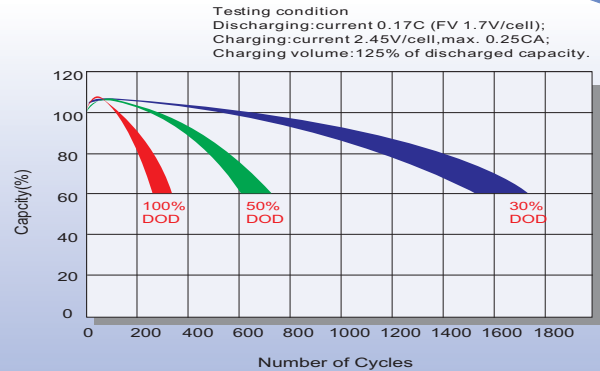
## Charging Characteristics (cycle use)



## 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 voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
  3. Charged for 8-10 hours 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

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