

### Specification

Nominal Voltage	12V	
Nominal Capacity(8HR)	6.0AH	
Dimension	Length	151 ± 1mm (5.95 inches)
	Width	65 ± 1mm (2.56 inches)
	Container Height	94.5 ± 1mm (3.72 inches)
	Total Height (with Terminal)	100 ± 1mm (3.94 inches)
Approx Weight	Approx 2.05 kg (4.52lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	6.27 AH/0.627A	(10hr, 1.80V/cell, 25°C/77°F)
	6.00 AH/0.75A	(8hr, 1.75V/cell, 25°C/77°F)
	5.34 AH/1.07A	(5hr, 1.75V/cell, 25°C/77°F)
	4.93AH/1.64A	(3hr, 1.75V/cell, 25°C/77°F)
	4.28 AH/4.28A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	90A (5s)	
Internal Resistance	Approx 20mΩ	
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 1.8A. 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 LPX 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

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting



### 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	11.7	9.54	7.68	6.78	5.29	4.00	3.31	1.95	1.50	1.18	0.95	0.84	0.695	0.592	0.338
1.80V/cell	15.7	12.2	9.27	8.02	6.24	4.66	3.71	2.13	1.61	1.26	1.02	0.90	0.737	0.627	0.341
1.75V/cell	17.7	13.4	10.1	8.63	6.48	4.83	3.88	2.21	1.64	1.29	1.07	0.93	0.750	0.633	0.344
1.70V/cell	19.5	14.6	10.8	9.07	6.75	5.03	4.00	2.30	1.69	1.33	1.09	0.95	0.761	0.640	0.350
1.65V/cell	21.5	15.8	11.5	9.63	7.12	5.15	4.14	2.36	1.76	1.37	1.11	0.97	0.773	0.653	0.355
1.60V/cell	23.8	17.1	12.3	10.3	7.51	5.37	4.28	2.44	1.82	1.41	1.14	0.99	0.780	0.659	0.357

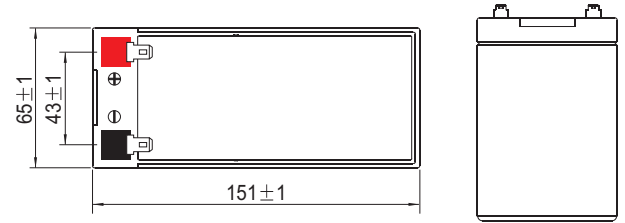
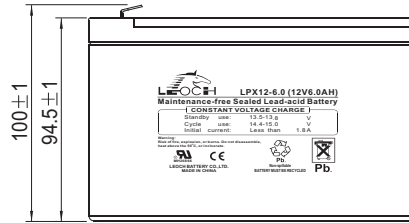
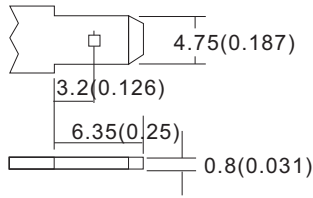
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	21.4	17.6	14.3	12.8	10.1	7.70	6.38	3.79	2.92	2.31	1.86	1.65	1.37	1.17	0.669
1.80V/cell	28.5	22.3	17.1	14.9	11.7	8.88	7.11	4.11	3.13	2.46	1.98	1.77	1.45	1.24	0.674
1.75V/cell	31.4	24.1	18.4	15.9	12.1	9.13	7.41	4.24	3.17	2.50	2.08	1.81	1.47	1.25	0.679
1.70V/cell	33.6	25.6	19.4	16.6	12.5	9.46	7.62	4.40	3.26	2.56	2.12	1.84	1.49	1.26	0.692
1.65V/cell	36.6	27.4	20.5	17.5	13.1	9.61	7.82	4.50	3.38	2.64	2.14	1.88	1.51	1.29	0.700
1.60V/cell	39.4	29.1	21.5	18.4	13.7	10.0	8.05	4.63	3.47	2.72	2.19	1.91	1.52	1.30	0.703

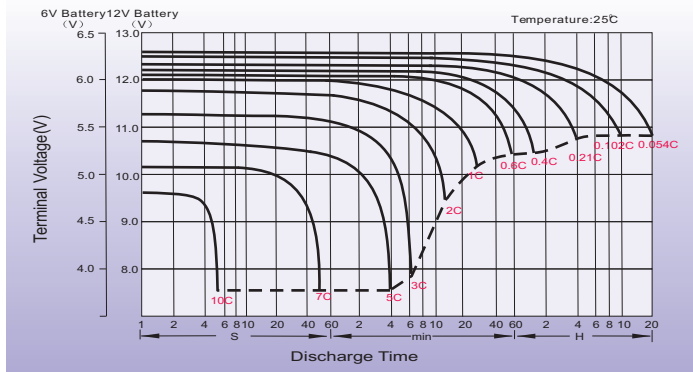
## Dimensions

### T1 Terminal

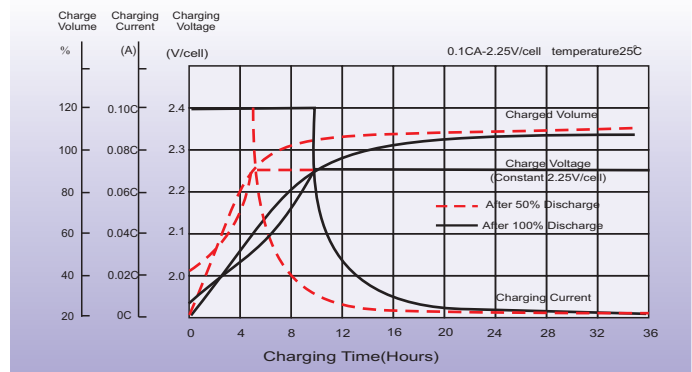
Unit: mm [inches]



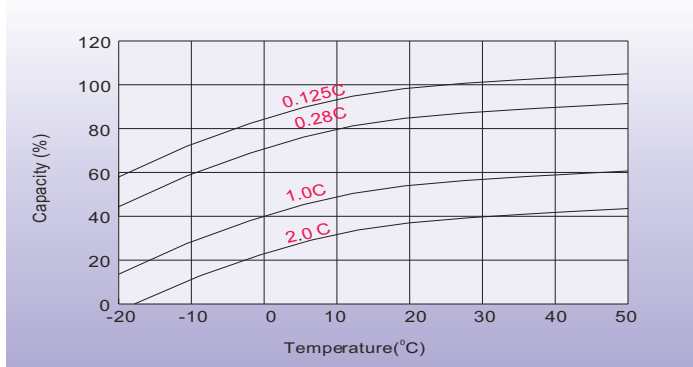
## Discharge Characteristics



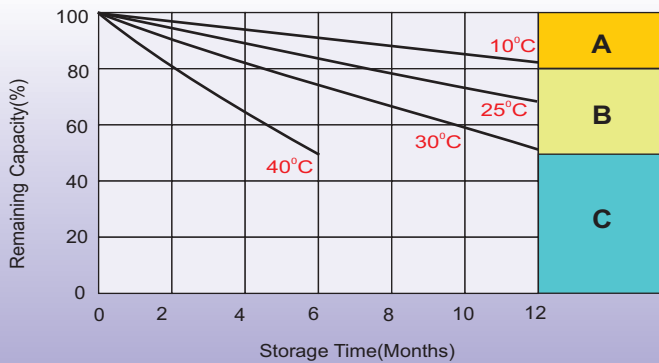
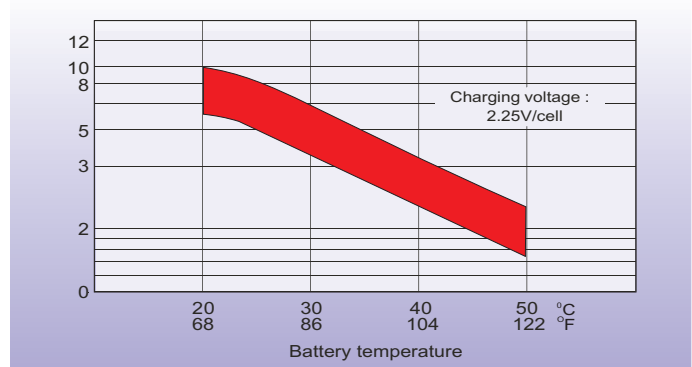
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## 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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