

### Specification

Nominal Voltage	12V	
Watts(15min Rate)	8.2 Watts at 1.67V/cell	
Dimension	Length	178±2mm (7.00 inches)
	Width	35±1mm (1.38 inches)
	Container Height	60±1mm (2.36 inches)
	Total Height (with Terminal)	66±1mm (2.60 inches)
Approx Weight	Approx 0.97 kg (2.14lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	2.13 AH/0.213A	(10hr, 1.80V/cell, 25°C/77°F)
	2.06 AH/0.258A	(8hr, 1.80V/cell, 25°C/77°F)
	1.90 AH/0.381A	(5hr, 1.75V/cell, 25°C/77°F)
	1.73 AH/0.576A	(3hr, 1.75V/cell, 25°C/77°F)
	1.59 AH/1.59A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	33A (5s)	
Internal Resistance	Approx 70mΩ	
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 0.66A. 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	7.18	4.66	3.73	3.17	2.42	1.77	1.40	0.760	0.541	0.428	0.357	0.310	0.248	0.207	0.113
1.80V/cell	8.09	5.24	4.08	3.42	2.56	1.86	1.45	0.784	0.559	0.441	0.369	0.321	0.258	0.213	0.115
1.75V/cell	8.69	5.49	4.25	3.55	2.63	1.92	1.50	0.810	0.576	0.456	0.381	0.330	0.265	0.219	0.117
1.70V/cell	9.22	5.77	4.44	3.66	2.72	1.97	1.54	0.833	0.593	0.469	0.391	0.338	0.269	0.223	0.119
1.67V/cell	9.74	5.99	4.57	3.75	2.77	2.01	1.57	0.849	0.604	0.477	0.398	0.344	0.273	0.226	0.120
1.60V/cell	10.2	6.18	4.67	3.82	2.82	2.04	1.59	0.861	0.611	0.484	0.403	0.348	0.275	0.227	0.120

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

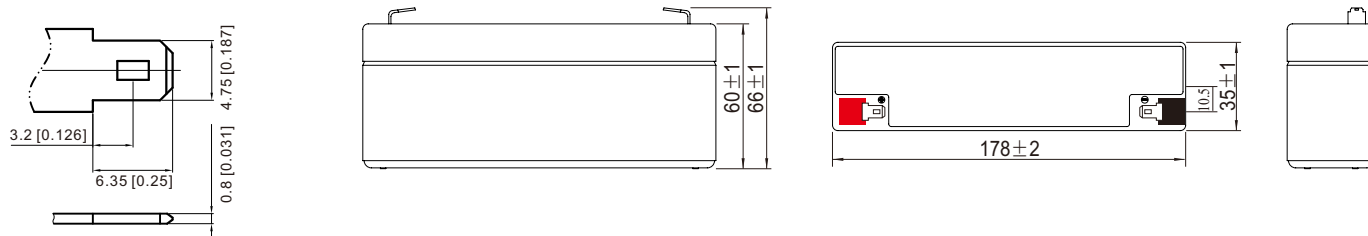
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	13.4	8.73	7.00	5.97	4.60	3.39	2.71	1.48	1.05	0.837	0.701	0.610	0.490	0.411	0.223
1.80V/cell	14.6	9.61	7.55	6.40	4.83	3.54	2.79	1.51	1.08	0.857	0.720	0.628	0.508	0.421	0.227
1.75V/cell	15.6	9.96	7.79	6.58	4.93	3.63	2.87	1.56	1.11	0.884	0.740	0.644	0.519	0.432	0.232
1.70V/cell	16.3	10.3	8.06	6.73	5.06	3.71	2.93	1.60	1.14	0.907	0.759	0.659	0.528	0.440	0.235
1.67V/cell	17.0	10.6	8.19	6.83	5.13	3.76	2.97	1.62	1.16	0.919	0.770	0.668	0.534	0.444	0.236
1.60V/cell	17.4	10.7	8.23	6.85	5.15	3.78	3.00	1.64	1.17	0.929	0.777	0.675	0.537	0.447	0.237

Specifications subject to change without notice.

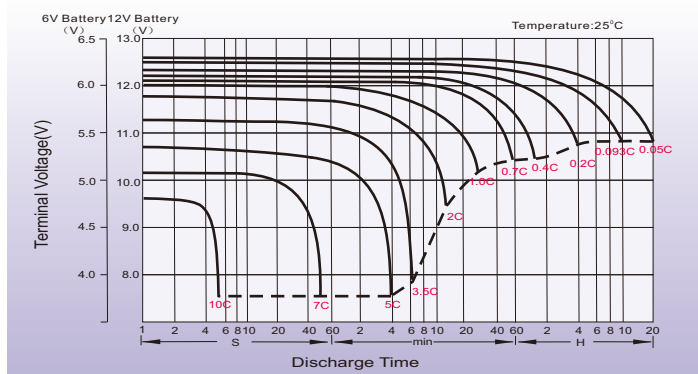
## Dimensions

### T1 Terminal

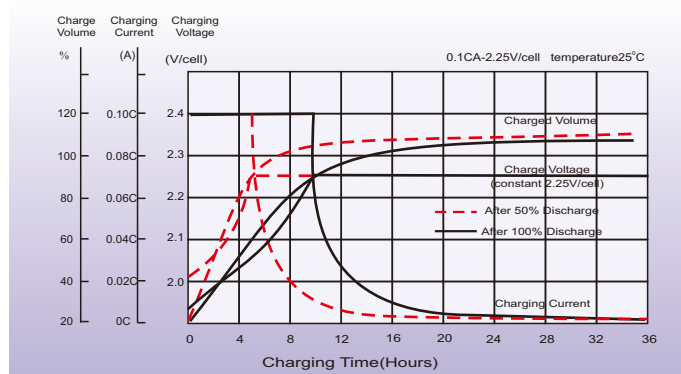
Unit: mm [inches]



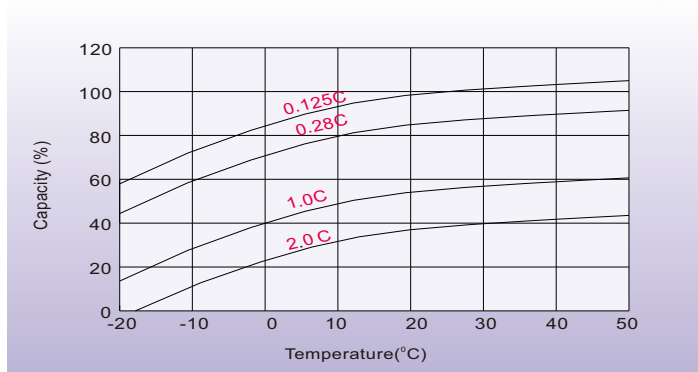
## Discharge Characteristics



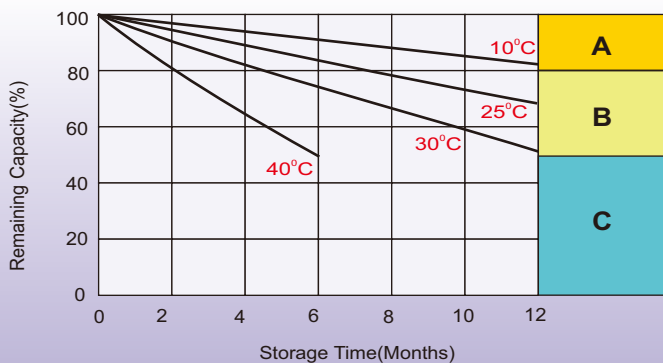
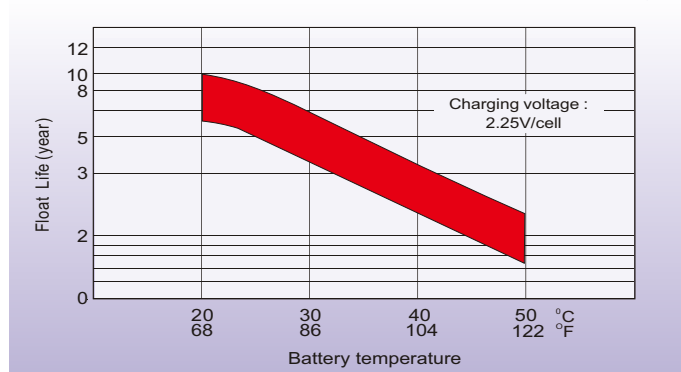
## Float Charging Characteristics



## 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 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.

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