

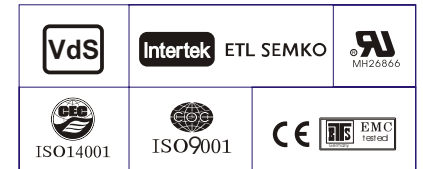
### Specification

Nominal Voltage	6V	
Nominal Capacity(20HR)	1.0AH	
Dimension	Length	51 ± 1mm (2.01 inches)
	Width	42 ± 1mm (1.65 inches)
	Container Height	51 ± 1mm (2.01 inches)
	Total Height (with Terminal)	57 ± 1mm (2.24 inches)
Approx Weight	Approx 0.27 kg (0.60lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	1.00 AH/0.500A	(20hr, 1.80V/cell, 25°C/77°F)
	0.93 AH/0.093A	(10hr, 1.80V/cell, 25°C/77°F)
	0.85 AH/0.17A	(5hr, 1.75V/cell, 25°C/77°F)
	0.765 AH/0.255A	(3hr, 1.75V/cell, 25°C/77°F)
	0.628 AH/0.628A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	15A (5s)	
Internal Resistance	Approx 75mΩ	
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 0.3A. 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	Leoch 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	1.90	1.46	1.21	1.05	0.81	0.597	0.503	0.297	0.233	0.189	0.154	0.134	0.108	0.090	0.0495
1.80V/cell	2.56	1.87	1.46	1.24	0.96	0.694	0.563	0.325	0.250	0.202	0.166	0.144	0.115	0.093	0.0500
1.75V/cell	2.88	2.05	1.60	1.33	0.99	0.720	0.589	0.337	0.255	0.207	0.170	0.148	0.117	0.096	0.0505
1.70V/cell	3.17	2.24	1.71	1.40	1.03	0.749	0.608	0.345	0.262	0.212	0.174	0.151	0.118	0.097	0.0514
1.65V/cell	3.50	2.42	1.81	1.49	1.09	0.768	0.622	0.350	0.273	0.219	0.179	0.154	0.120	0.099	0.0521
1.60V/cell	3.86	2.62	1.94	1.58	1.15	0.800	0.628	0.365	0.282	0.226	0.185	0.157	0.121	0.101	0.0524

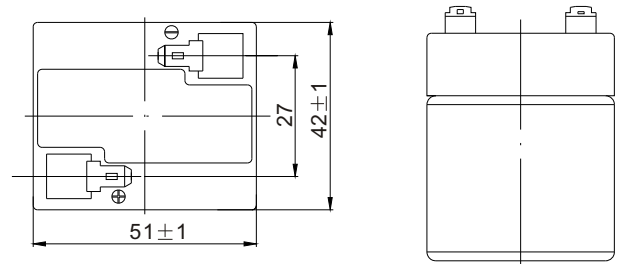
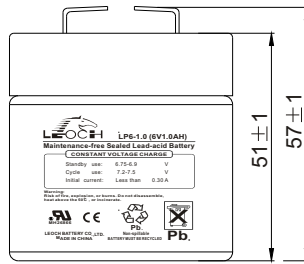
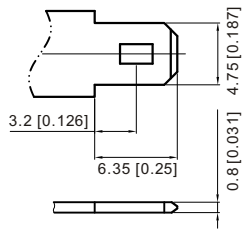
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.48	2.70	2.26	1.97	1.54	1.15	0.97	0.578	0.454	0.370	0.303	0.263	0.213	0.179	0.0981
1.80V/cell	4.62	3.41	2.69	2.30	1.79	1.32	1.08	0.626	0.485	0.393	0.323	0.281	0.225	0.184	0.0989
1.75V/cell	5.10	3.69	2.91	2.45	1.85	1.36	1.13	0.647	0.492	0.400	0.331	0.288	0.229	0.188	0.0998
1.70V/cell	5.46	3.93	3.06	2.56	1.91	1.41	1.16	0.662	0.505	0.410	0.338	0.294	0.232	0.192	0.1015
1.65V/cell	5.94	4.20	3.23	2.69	2.00	1.43	1.18	0.667	0.524	0.423	0.347	0.299	0.235	0.196	0.1027
1.60V/cell	6.40	4.46	3.40	2.84	2.10	1.48	1.18	0.693	0.538	0.435	0.357	0.304	0.237	0.198	0.1032

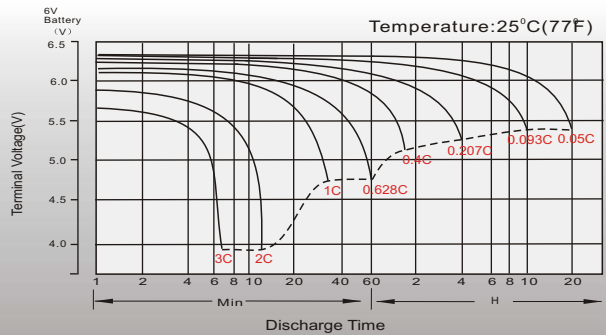
## Dimensions

### T1 Terminal

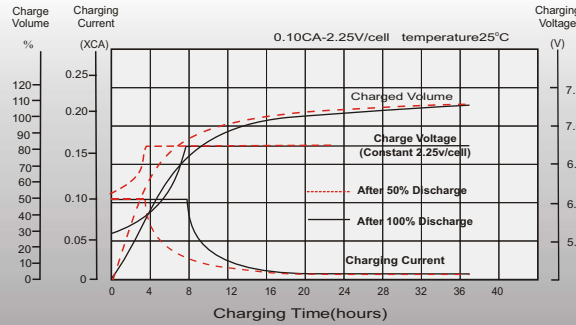
Unit: mm [inches]



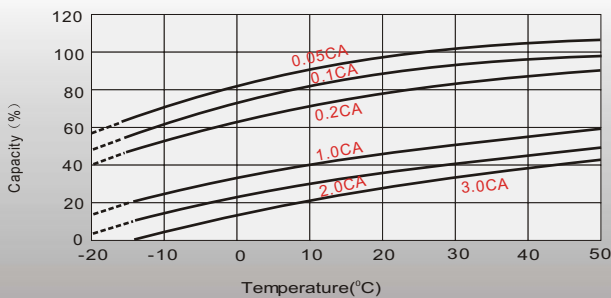
## Discharge Characteristics



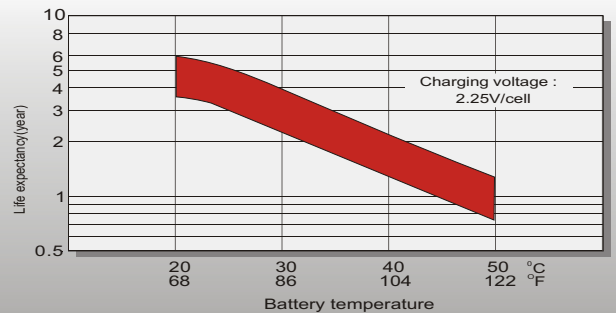
## Float Charging Characteristics



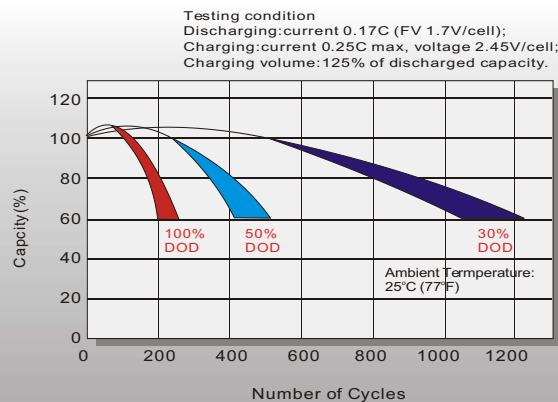
## Temperature Effects in Relation to Battery Capacity



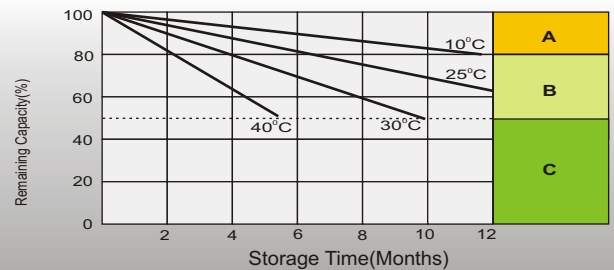
## Effect of Temperature on Long Term Float Life



## 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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