

# LP SERIES-General Purpose

## LP6-3.2 (6V3.2AH)



### Specification

Nominal Voltage	6V	
Nominal Capacity(20HR)	3.2AH	
Dimensions	Length	134 ± 2mm (5.28 inches)
	Width	34 ± 1mm (1.34 inches)
	Container Height	60 ± 1mm (2.36 inches)
	Total Height (with Terminal)	66 ± 1mm (2.60 inches)
Approx Weight	Approx 0.67 kg (1.48lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	3.20 AH/0.160A	(20hr, 1.80V/cell, 25°C/77°F)
	2.98 AH/0.298A	(10hr, 1.80V/cell, 25°C/77°F)
	2.69 AH/0.538A	(5hr, 1.75V/cell, 25°C/77°F)
	2.35 AH/0.783A	(3hr, 1.75V/cell, 25°C/77°F)
	1.94 AH/1.94A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	48A (5s)	
Internal Resistance	Approx 28mΩ	
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 0.96A. 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	6.14	4.28	3.53	3.06	2.46	1.89	1.55	0.944	0.719	0.591	0.502	0.435	0.345	0.287	0.158
1.80V/cell	7.55	5.11	4.10	3.47	2.72	2.06	1.66	1.00	0.756	0.622	0.524	0.454	0.358	0.298	0.160
1.75V/cell	8.95	5.78	4.52	3.77	2.91	2.19	1.75	1.05	0.783	0.641	0.538	0.465	0.368	0.303	0.162
1.70V/cell	10.2	6.37	4.89	4.05	3.05	2.27	1.82	1.09	0.809	0.657	0.551	0.476	0.374	0.308	0.164
1.65V/cell	11.2	6.85	5.17	4.25	3.18	2.36	1.90	1.12	0.829	0.670	0.563	0.485	0.380	0.313	0.167
1.60V/cell	11.8	7.14	5.39	4.39	3.27	2.41	1.94	1.16	0.849	0.687	0.575	0.495	0.388	0.318	0.168

### 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	11.6	8.16	6.79	5.93	4.79	3.71	3.04	1.87	1.43	1.18	1.00	0.872	0.695	0.579	0.320
1.80V/cell	14.1	9.64	7.81	6.66	5.27	4.01	3.26	1.98	1.49	1.23	1.04	0.905	0.716	0.596	0.322
1.75V/cell	16.5	10.8	8.53	7.20	5.59	4.24	3.41	2.05	1.54	1.26	1.06	0.921	0.731	0.604	0.322
1.70V/cell	18.5	11.8	9.15	7.67	5.83	4.38	3.53	2.12	1.58	1.29	1.08	0.938	0.738	0.610	0.326
1.65V/cell	20.1	12.5	9.56	7.97	6.03	4.52	3.66	2.17	1.61	1.31	1.10	0.952	0.746	0.616	0.329
1.60V/cell	20.8	12.9	9.86	8.13	6.13	4.58	3.71	2.22	1.64	1.33	1.12	0.966	0.758	0.623	0.330

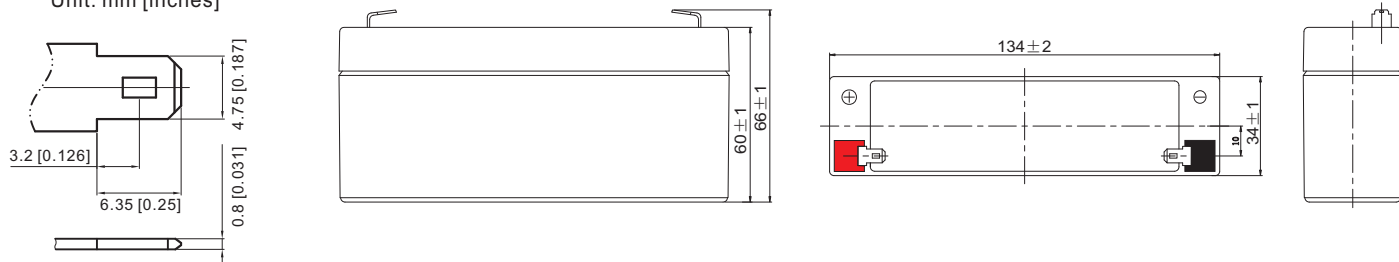
Specifications subject to change without notice.



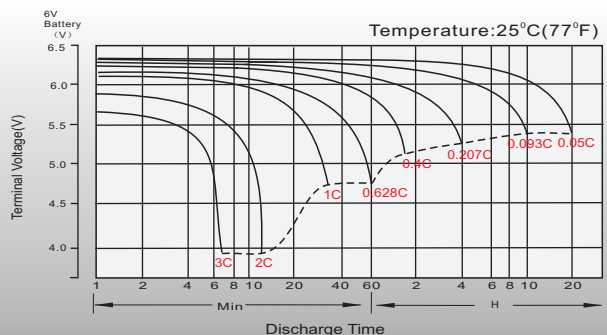
## Dimensions

### T1 Terminal

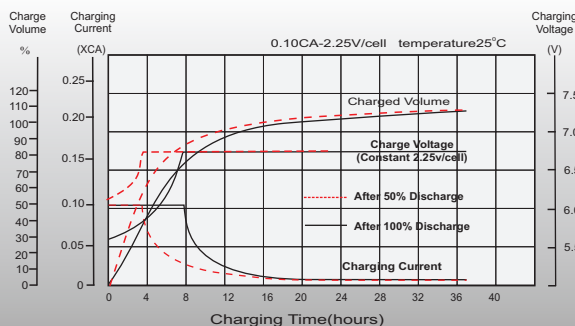
Unit: mm [inches]



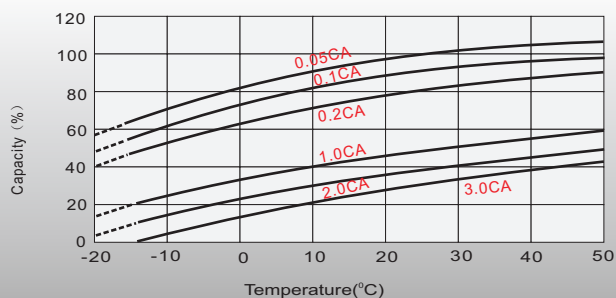
## Discharge Characteristics



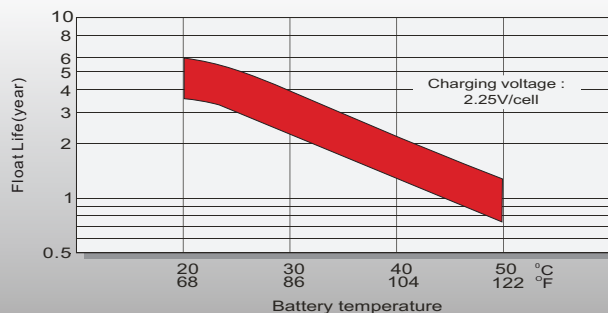
## Float Charging Characteristics



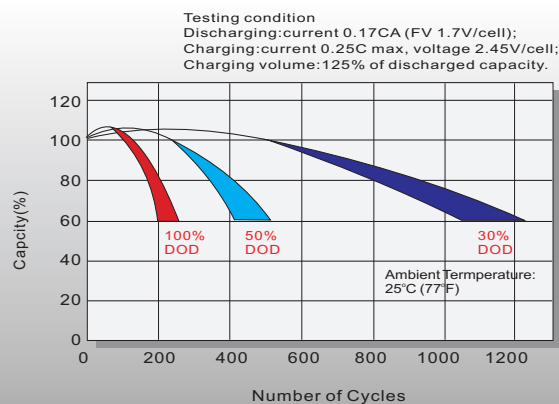
## Temperature Effects in Relation to Battery Capacity



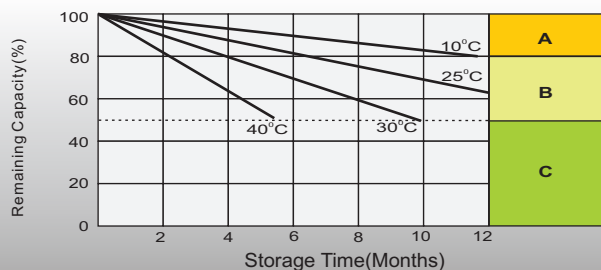
## Effect of Temperature on Long Term Float Life



## 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.)

Supplementary charge required before use. Optional charging way as below:  
**B** 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

### China sales office:

Add: 5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
 Nanshan, Shenzhen, China. 518052  
 Tel: +86-755-86036060 (100 lines)  
 Fax: +86-755-26067269  
 E-mail: export@leoch.com  
 Http://www.leoch.com

### HongKong sales office:

Workshop C, 33/F, TML Tower,  
 No. 3 Hoi Shing Road, Tsuen Wan,  
 New Territories, Hong Kong  
 Tel: +852 35786666  
 Fax: +852 21170016  
 E-mail: sales.hk@leoch.com

### Singapore sales office:

Add: No. 1 Tech Park Crescent,  
 Singapore 638131  
 Tel: +65 68636078  
 Fax: +65 68636079  
 Email sales.sg@leoch.com  
 Http://www.leoch.com

### North America sales office:

Add: 19751 Descartes, Unit A,  
 Foothill Ranch, CA 92610, USA  
 Tel: 949-588-5853  
 Fax: 949-588-5966  
 E-mail: sales@leoch.us  
 Http://www.leoch.com

### Europe sales office:

Add: 9B Wheatstone Court. Waterwells  
 Business Park, Gloucester, GL2-2AQ,  
 UK United Kingdom  
 Tel: +44(0) 1452 729428 / 1452 729696  
 Fax: +44 (0)1452-690125  
 E-mail: Sales.Europe@leoch.com