

LP SERIES-General Purpose

LP12-6.0H (12V6.0AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	6.0AH	
Dimension	Length	140±2mm (5.51 inches)
	Width	48±1mm (1.89 inches)
	Container Height	102±2mm (4.02 inches)
	Total Height (with Terminal)	103±2mm (4.06 inches)
Approx Weight	Approx 1.84 kg (4.06lbs)	
Terminal	NT1 / PT2	
Container Material	ABS	
Rated Capacity	6.00 AH/0.30A	(20hr, 1.80V/cell, 25°C/77°F)
	5.58 AH/0.558A	(10hr, 1.80V/cell, 25°C/77°F)
	5.10 AH/1.02A	(5hr, 1.75V/cell, 25°C/77°F)
	4.59 AH/1.53A	(3hr, 1.75V/cell, 25°C/77°F)
	3.77 AH/3.77A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	90A (5s)	
Internal Resistance	Approx 25mΩ	
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 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	11.4	8.77	7.27	6.28	4.86	3.58	3.02	1.78	1.40	1.14	0.93	0.80	0.648	0.541	0.297
1.80V/cell	15.3	11.2	8.78	7.43	5.73	4.16	3.38	1.95	1.50	1.21	0.99	0.86	0.687	0.558	0.300
1.75V/cell	17.3	12.3	9.59	7.99	5.95	4.32	3.54	2.02	1.53	1.24	1.02	0.89	0.699	0.573	0.303
1.70V/cell	19.0	13.4	10.2	8.40	6.20	4.49	3.65	2.07	1.57	1.27	1.05	0.90	0.709	0.584	0.308
1.65V/cell	21.0	14.5	10.9	8.92	6.54	4.61	3.73	2.10	1.64	1.32	1.07	0.92	0.720	0.596	0.313
1.60V/cell	23.2	15.7	11.6	9.50	6.90	4.80	3.77	2.19	1.69	1.36	1.11	0.94	0.727	0.603	0.314

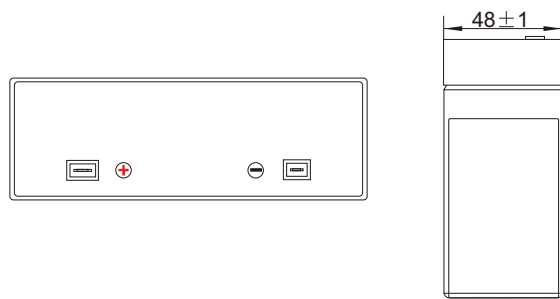
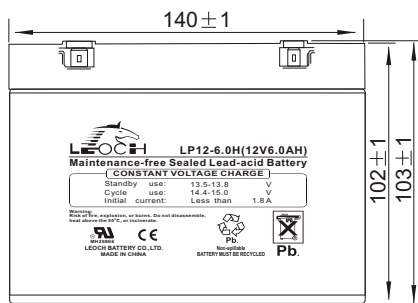
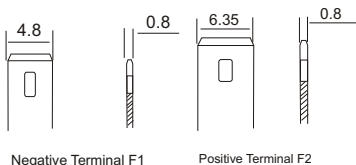
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	20.9	16.2	13.6	11.8	9.26	6.88	5.82	3.47	2.72	2.22	1.82	1.58	1.279	1.071	0.588
1.80V/cell	27.7	20.5	16.2	13.8	10.8	7.94	6.48	3.76	2.91	2.36	1.94	1.69	1.353	1.103	0.593
1.75V/cell	30.6	22.1	17.4	14.7	11.1	8.16	6.75	3.88	2.95	2.40	1.98	1.73	1.373	1.131	0.599
1.70V/cell	32.8	23.6	18.4	15.3	11.5	8.46	6.94	3.97	3.03	2.46	2.03	1.76	1.391	1.153	0.609
1.65V/cell	35.6	25.2	19.4	16.2	12.0	8.59	7.05	4.00	3.15	2.54	2.08	1.79	1.409	1.174	0.616
1.60V/cell	38.4	26.7	20.4	17.0	12.6	8.90	7.08	4.16	3.23	2.61	2.14	1.83	1.420	1.185	0.619

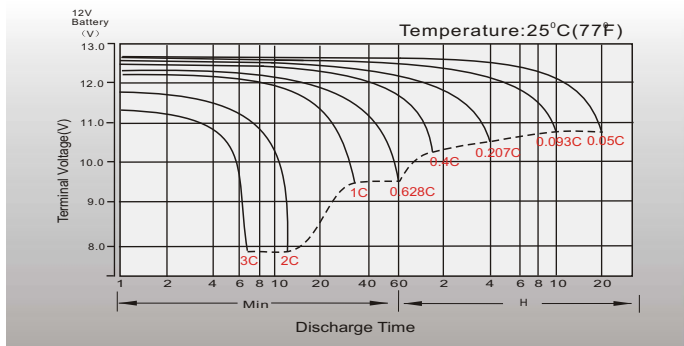
Dimensions

NT1/PT2 Terminal

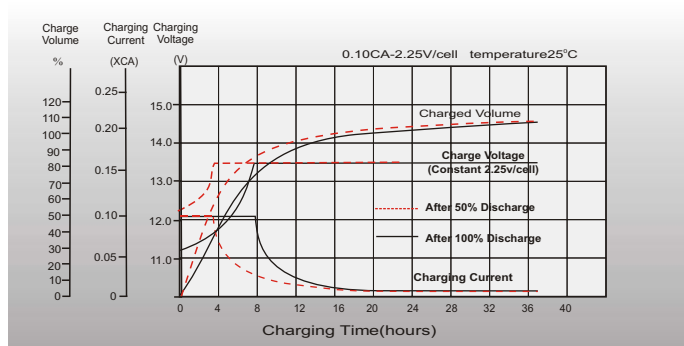
Unit: mm [inches]



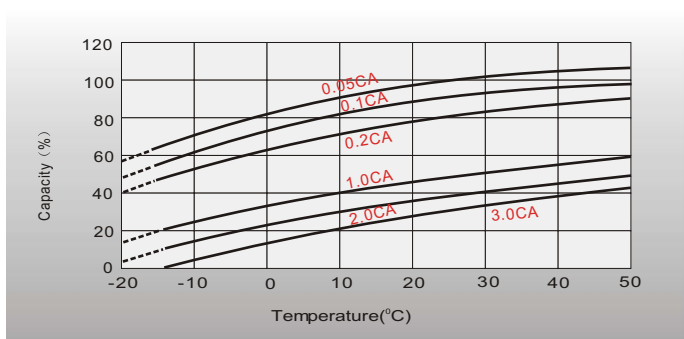
Discharge Characteristics



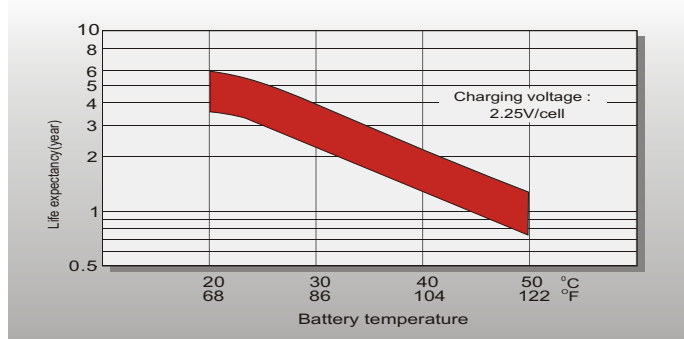
Float Charging Characteristics



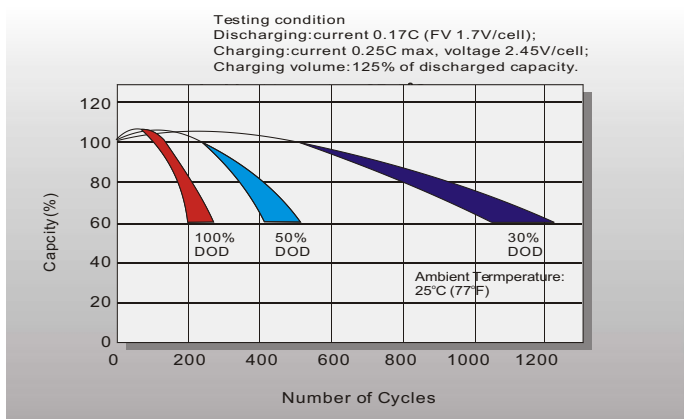
Temperature Effects in Relation to Battery Capacity



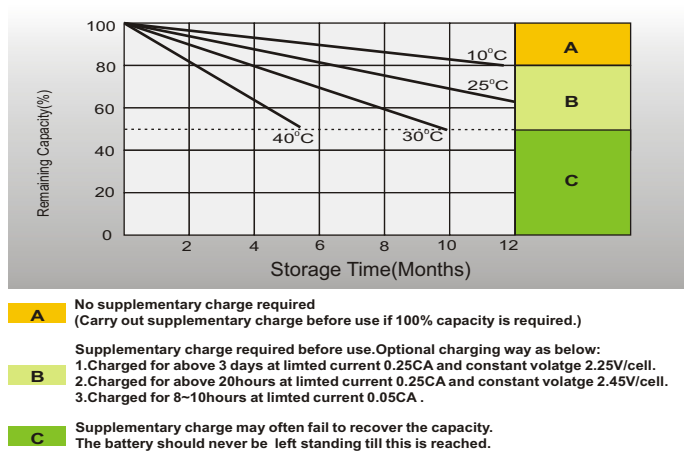
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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