

LP SERIES-General Purpose

LP12-8.5 (12V8.5AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	8.24AH @20	
Dimensions	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.45 kg (5.40lbs)	
Terminal	T2	
Container Material	ABS	
Rated Capacity	8.24 AH/0.412A	(20hr, 1.80V/cell, 25°C/77°F)
	7.69 AH/0.769A	(10hr, 1.80V/cell, 25°C/77°F)
	6.95 AH/1.39A	(5hr, 1.75V/cell, 25°C/77°F)
	6.12 AH/2.04A	(3hr, 1.75V/cell, 25°C/77°F)
	5.10 AH/5.10A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	127.5A (5s)	
Internal Resistance	Approx 18mΩ	
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 2.55A. 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	18.6	13.2	11.1	9.42	7.04	5.23	4.22	2.52	1.87	1.52	1.29	1.12	0.884	0.730	0.403
1.80V/cell	22.2	15.2	12.4	10.4	7.70	5.63	4.54	2.69	1.99	1.60	1.36	1.17	0.932	0.769	0.412
1.75V/cell	24.8	16.5	13.4	11.0	8.03	5.84	4.70	2.76	2.04	1.63	1.39	1.19	0.949	0.782	0.421
1.70V/cell	27.1	17.9	14.1	11.5	8.33	6.04	4.84	2.84	2.08	1.67	1.41	1.21	0.962	0.792	0.426
1.65V/cell	29.4	18.8	14.6	11.9	8.61	6.23	4.99	2.89	2.13	1.69	1.44	1.23	0.973	0.800	0.430
1.60V/cell	31.0	19.6	15.1	12.2	8.85	6.38	5.10	2.96	2.16	1.73	1.46	1.25	0.983	0.807	0.433

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	35.1	25.1	21.3	18.2	13.8	10.3	8.32	4.97	3.72	3.02	2.59	2.25	1.78	1.47	0.814
1.80V/cell	41.4	28.7	23.7	20.0	15.0	11.0	8.91	5.31	3.94	3.19	2.72	2.36	1.87	1.54	0.829
1.75V/cell	46.0	31.1	25.4	21.1	15.5	11.4	9.23	5.44	4.01	3.23	2.75	2.38	1.89	1.56	0.843
1.70V/cell	49.3	33.1	26.3	21.8	16.0	11.7	9.40	5.54	4.09	3.27	2.77	2.41	1.90	1.57	0.846
1.65V/cell	52.7	34.4	27.0	22.2	16.3	11.9	9.60	5.60	4.14	3.30	2.80	2.42	1.91	1.58	0.848
1.60V/cell	54.3	34.9	27.5	22.4	16.5	12.1	9.70	5.68	4.17	3.34	2.83	2.44	1.92	1.59	0.850

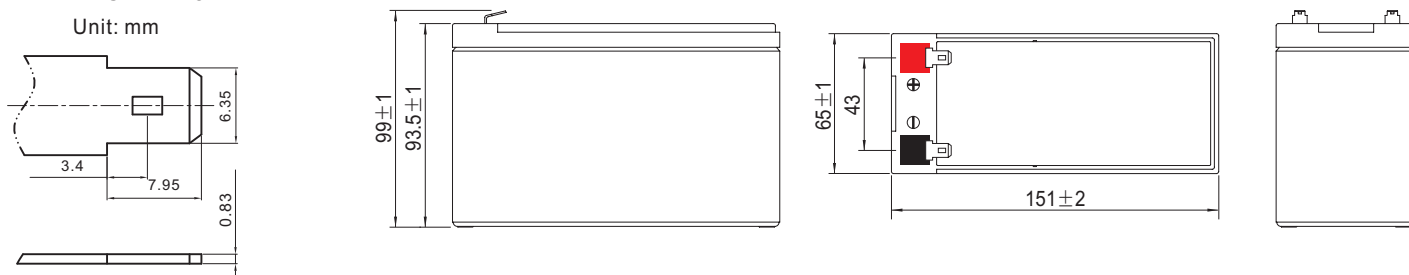
Specifications subject to change without notice.



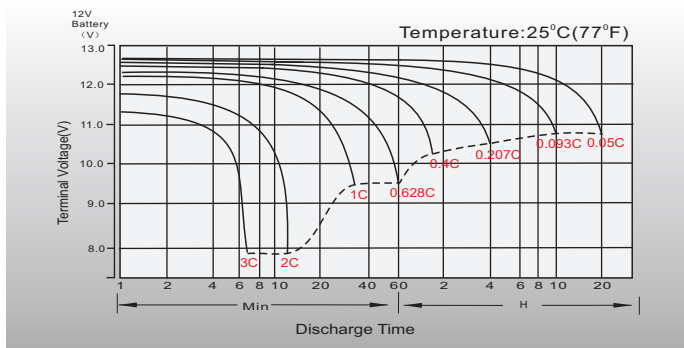
Dimensions

T2 Terminal

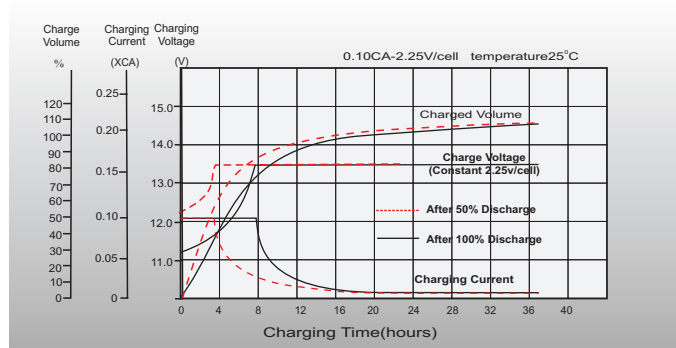
Unit: mm



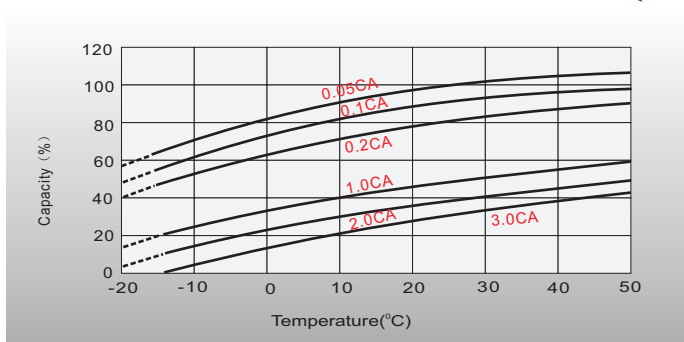
Discharge Characteristics



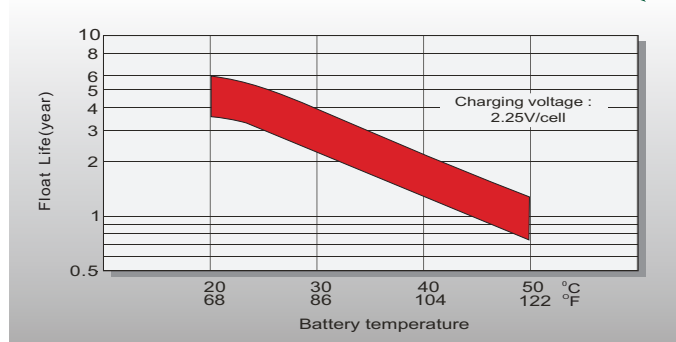
Float Charging Characteristics



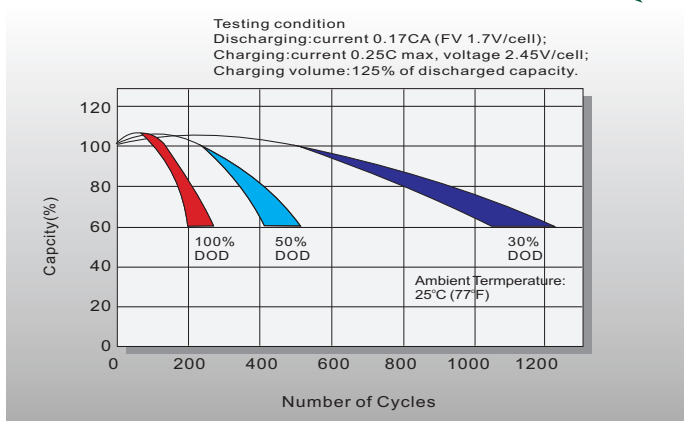
Temperature Effects in Relation to Battery Capacity



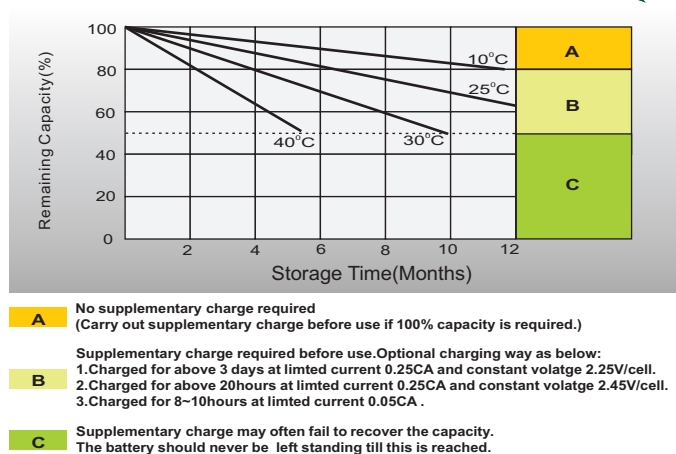
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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