

Specification

Nominal Voltage	12V	
Watts(15min Rate)	12.5 Watts at 1.67V/cell	
Dimension	Length	134±2mm (5.28 inches)
	Width	67±1mm (2.64 inches)
	Container Height	60.5±1mm (2.38 inches)
	Total Height (with Terminal)	66.5±1mm (2.62 inches)
Approx Weight	Approx 1.35 kg (2.98lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity	3.25 AH/0.325A	(10hr, 1.80V/cell, 25°C/77°F)
	3.14 AH/0.393A	(8hr, 1.80V/cell, 25°C/77°F)
	2.90 AH/0.579A	(5hr, 1.75V/cell, 25°C/77°F)
	2.63 AH/0.876A	(3hr, 1.75V/cell, 25°C/77°F)
	2.43 AH/2.43A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	48A (5s)	
Internal Resistance	Approx 45mΩ	
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
	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	10.9	7.10	5.67	4.82	3.68	2.69	2.13	1.16	0.823	0.652	0.544	0.472	0.378	0.316	0.171
1.80V/cell	12.3	7.98	6.22	5.21	3.90	2.83	2.21	1.19	0.850	0.670	0.561	0.488	0.393	0.325	0.175
1.75V/cell	13.2	8.36	6.47	5.40	4.00	2.92	2.28	1.23	0.876	0.694	0.579	0.502	0.403	0.333	0.179
1.70V/cell	14.0	8.78	6.76	5.57	4.14	3.00	2.34	1.27	0.902	0.713	0.595	0.515	0.410	0.340	0.181
1.67V/cell	14.8	9.11	6.96	5.70	4.22	3.06	2.38	1.29	0.919	0.725	0.606	0.523	0.415	0.343	0.182
1.60V/cell	15.5	9.41	7.11	5.82	4.30	3.10	2.43	1.31	0.930	0.736	0.613	0.530	0.419	0.346	0.183

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

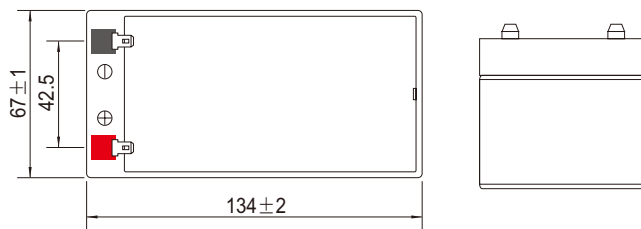
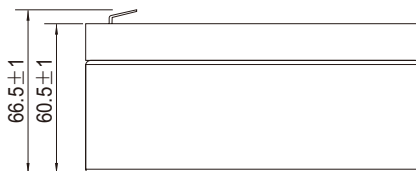
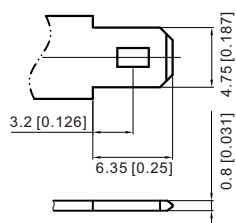
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	20.4	13.3	10.7	9.08	7.00	5.16	4.12	2.25	1.60	1.27	1.07	0.93	0.745	0.625	0.340
1.80V/cell	22.3	14.6	11.5	9.74	7.36	5.38	4.24	2.30	1.65	1.30	1.10	0.95	0.773	0.641	0.346
1.75V/cell	23.7	15.2	11.9	10.0	7.50	5.53	4.36	2.37	1.69	1.34	1.13	0.98	0.790	0.658	0.353
1.70V/cell	24.8	15.7	12.3	10.2	7.70	5.65	4.46	2.43	1.74	1.38	1.16	1.00	0.803	0.670	0.357
1.67V/cell	25.8	16.1	12.5	10.4	7.80	5.72	4.52	2.47	1.76	1.40	1.17	1.02	0.812	0.676	0.359
1.60V/cell	26.5	16.3	12.6	10.5	7.84	5.75	4.56	2.49	1.78	1.41	1.18	1.03	0.818	0.680	0.360

Specifications subject to change without notice.

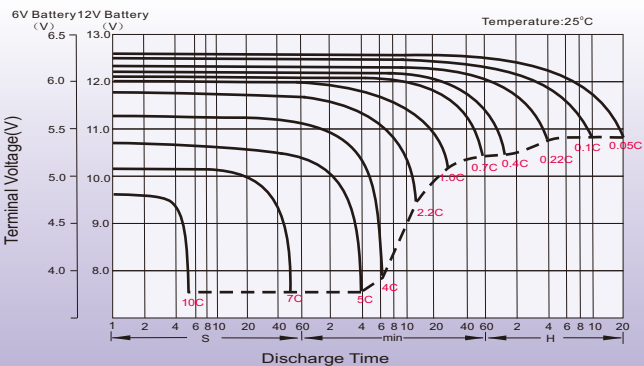
Dimensions

T1 Terminal

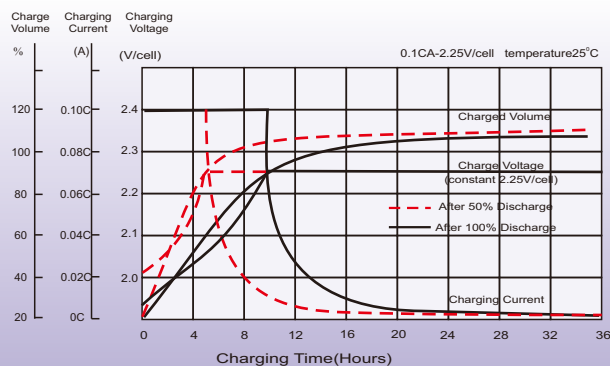
Unit: mm [inches]



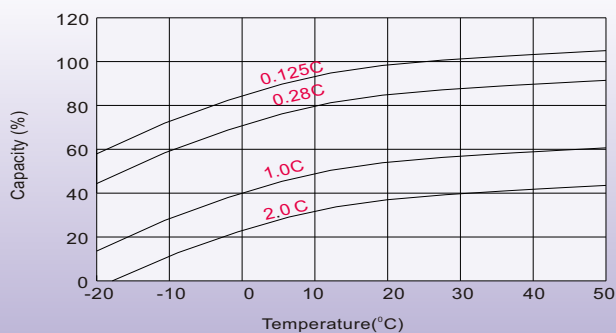
Discharge Characteristics



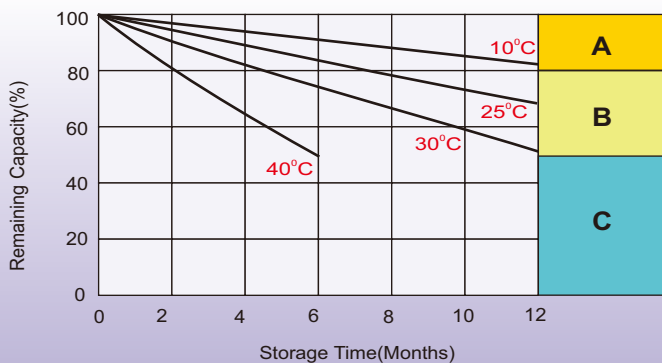
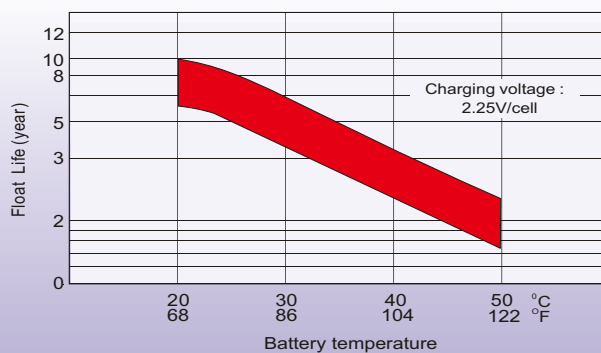
Float Charging Characteristics



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 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.

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