

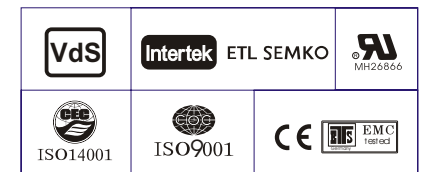
### Specification

Nominal Voltage	12V	
Watts(15min Rate)	12.2 Watte 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	3.24 AH/0.324A	(10hr , 1.80V/cell, 25°C/77°F)
	3.20 AH/0.40A	(8hr, 1.80V/cell, 25°C/77°F)
	2.91 AH/0.582A	(5hr, 1.75V/cell, 25°C/77°F)
	2.67 AH/0.89A	(3hr, 1.75V/cell, 25°C/77°F)
	2.47 AH/2.47A	(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	9.57	6.51	4.91	4.25	3.37	2.53	2.03	1.14	0.813	0.642	0.545	0.461	0.380	0.312	0.172
1.80V/cell	10.9	7.24	5.34	4.57	3.61	2.68	2.14	1.21	0.875	0.686	0.569	0.485	0.400	0.324	0.173
1.75V/cell	12.3	7.95	5.85	4.92	3.74	2.78	2.24	1.25	0.890	0.700	0.582	0.499	0.406	0.330	0.175
1.70V/cell	13.6	8.67	6.24	5.17	3.90	2.89	2.31	1.31	0.916	0.719	0.596	0.509	0.416	0.337	0.178
1.67V/cell	14.9	9.36	6.63	5.49	4.11	2.97	2.39	1.34	0.954	0.744	0.608	0.520	0.423	0.344	0.181
1.60V/cell	16.5	9.99	6.96	5.85	4.35	3.09	2.47	1.39	0.985	0.767	0.625	0.532	0.427	0.348	0.181

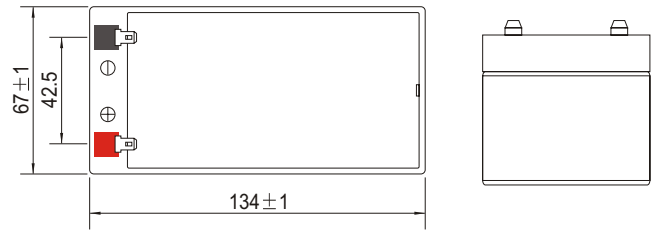
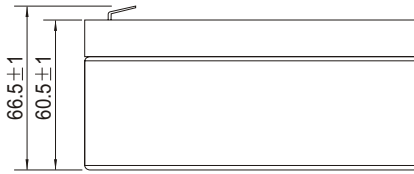
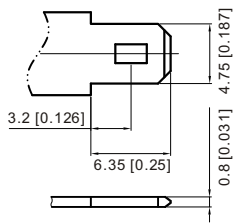
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.5	12.0	9.19	8.01	6.41	4.87	3.91	2.22	1.59	1.27	1.09	0.922	0.745	0.616	0.341
1.80V/cell	19.7	13.2	9.89	8.49	6.77	5.11	4.10	2.34	1.71	1.35	1.13	0.970	0.780	0.640	0.344
1.75V/cell	21.7	14.3	10.7	9.05	6.97	5.26	4.28	2.42	1.73	1.37	1.14	0.989	0.791	0.650	0.346
1.70V/cell	23.3	15.2	11.3	9.44	7.22	5.44	4.40	2.50	1.78	1.41	1.17	1.009	0.810	0.664	0.353
1.67V/cell	25.3	16.3	11.8	9.99	7.56	5.53	4.52	2.56	1.84	1.45	1.19	1.028	0.821	0.677	0.357
1.60V/cell	27.4	17.0	12.2	10.5	7.92	5.73	4.65	2.63	1.89	1.48	1.22	1.048	0.827	0.683	0.359

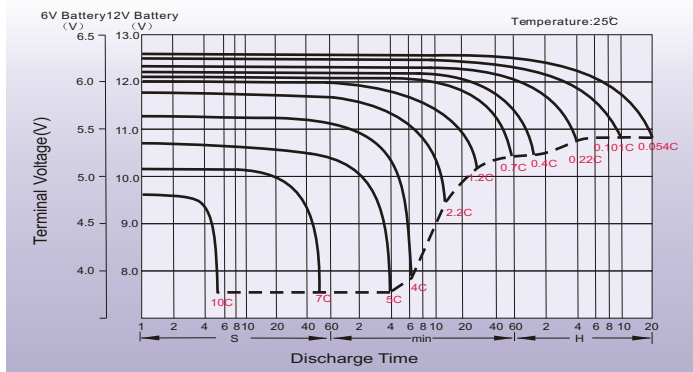
## Dimensions

### T1 Terminal

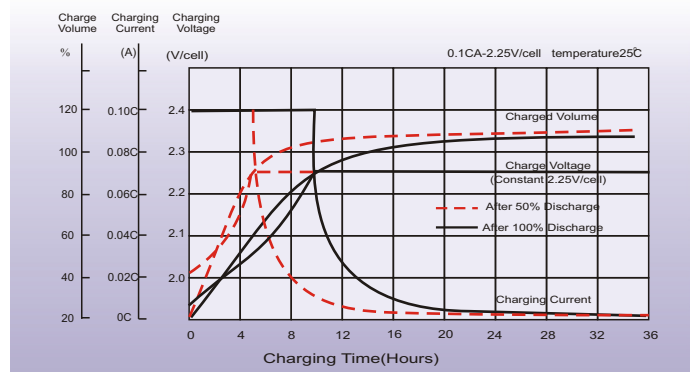
Unit: mm [inches]



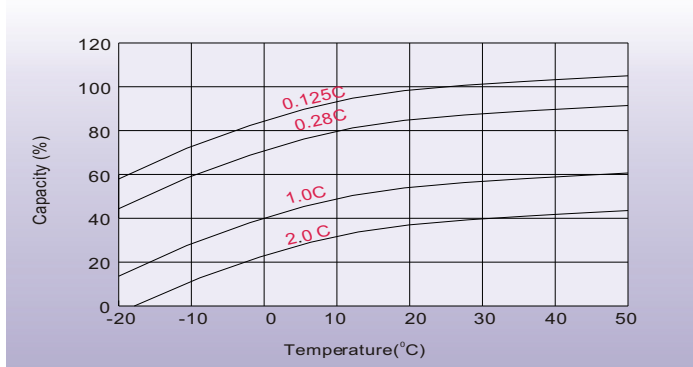
## Discharge Characteristics



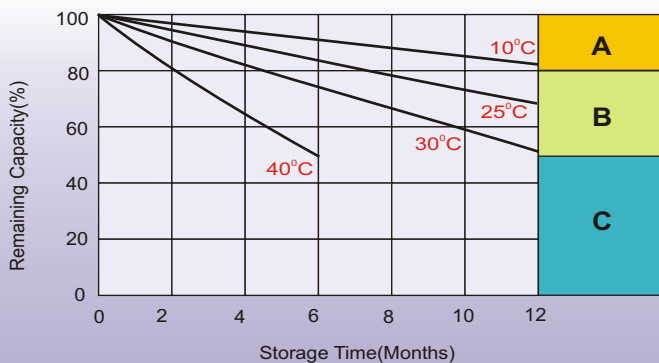
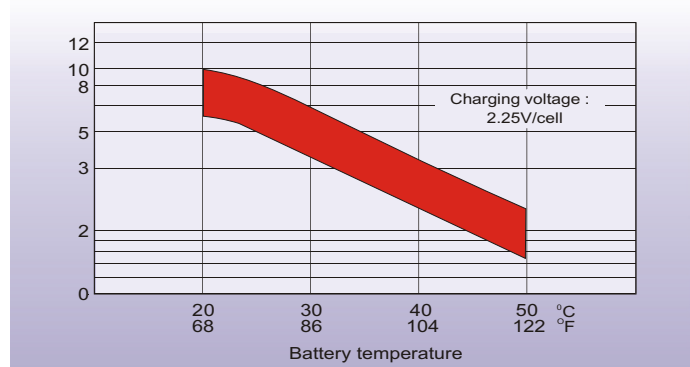
## Float Charging Characteristics



## 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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