

### Specification

Nominal Voltage	12V
Nominal Capacity(10HR)	8.2Ah at 1.80V/cell @25°C/77°F
Watts(15min Rated)	36.0 Watts/cell at 1.67V/cell @25°C/77°F
Dimension	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 2.40 kg (5.29lbs)
Terminal	T2
Container Material	ABS
Rated Capacity	8.72 AH/0.436A (20hr, 1.80V/cell, 25°C/77°F)
	8.20 AH/0.820A (10hr, 1.80V/cell, 25°C/77°F)
	8.00 AH/1.00A (8hr, 1.75V/cell, 25°C/77°F)
	6.51 AH/2.17A (3hr, 1.75V/cell, 25°C/77°F)
	6.02 AH/6.02A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	105A (5s)
Internal Resistance	Approx 20.0mΩ
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 2.40A. 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 LCP series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

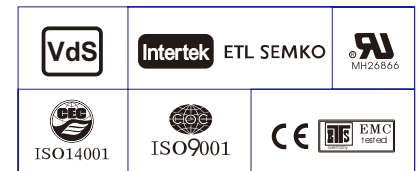


### Applications

- ◆ UPS (High rate)
- ◆ Emergency power supply
- ◆ Banks & Financial Markets
- ◆ Hospitals & Testing Laboratories
- ◆ Industrial Process Control Facilities
- ◆ Date & Network Operations Centers

### Compliant Standards

- ◆ IEC60896-21/22:2004
- ◆ BS 6290 Part 4



### 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	23.5	18.0	14.6	12.2	8.88	6.26	4.87	2.72	1.94	1.55	1.30	1.15	0.90	0.749	0.418
1.80V/cell	25.9	19.9	16.0	13.4	9.55	6.76	5.26	2.92	2.09	1.67	1.40	1.25	0.99	0.820	0.436
1.75V/cell	30.8	22.5	18.1	14.5	10.2	7.14	5.53	3.06	2.17	1.72	1.43	1.27	1.00	0.828	0.439
1.70V/cell	32.6	23.4	18.8	14.9	10.5	7.34	5.71	3.14	2.23	1.75	1.46	1.29	1.02	0.836	0.443
1.67V/cell	35.0	24.5	19.5	15.4	10.9	7.62	5.90	3.22	2.27	1.78	1.48	1.30	1.03	0.841	0.444
1.60V/cell	36.7	25.4	20.0	15.8	11.1	7.75	6.02	3.28	2.31	1.80	1.49	1.31	1.04	0.848	0.446

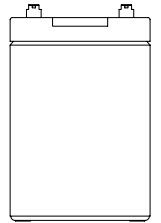
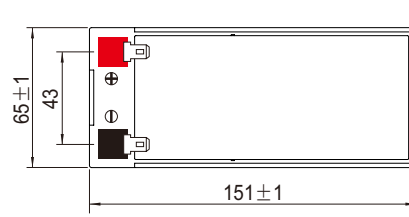
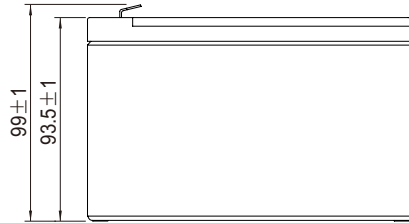
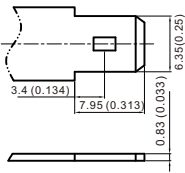
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	44.4	34.4	28.1	23.9	17.5	12.4	9.74	5.47	3.92	3.14	2.63	2.28	1.80	1.50	0.840
1.80V/cell	48.3	37.7	30.6	26.0	18.7	13.4	10.5	5.84	4.21	3.38	2.84	2.47	1.97	1.64	0.872
1.75V/cell	56.6	42.0	34.4	27.8	19.9	14.0	11.0	6.10	4.36	3.46	2.89	2.51	1.99	1.65	0.878
1.70V/cell	59.0	43.2	35.2	28.3	20.3	14.3	11.3	6.24	4.46	3.52	2.95	2.54	2.01	1.66	0.885
1.67V/cell	62.2	44.4	36.0	28.9	20.8	14.8	11.6	6.38	4.52	3.56	2.98	2.56	2.01	1.67	0.886
1.60V/cell	63.8	45.3	36.2	29.3	21.0	14.9	11.7	6.44	4.57	3.58	2.99	2.58	2.04	1.68	0.890

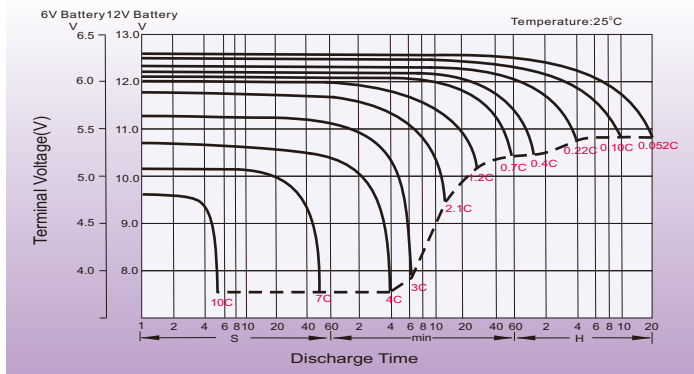
## Dimensions

### T2 Terminal

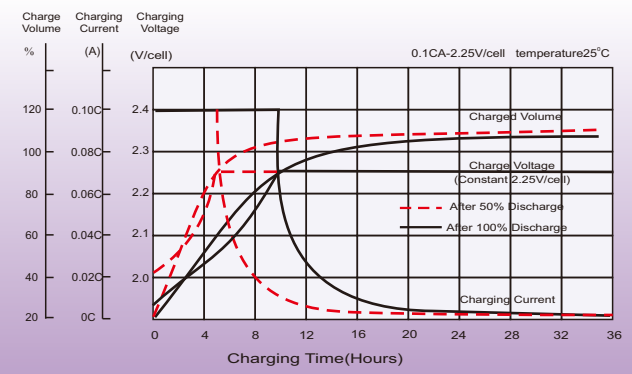
Unit: mm [inches]



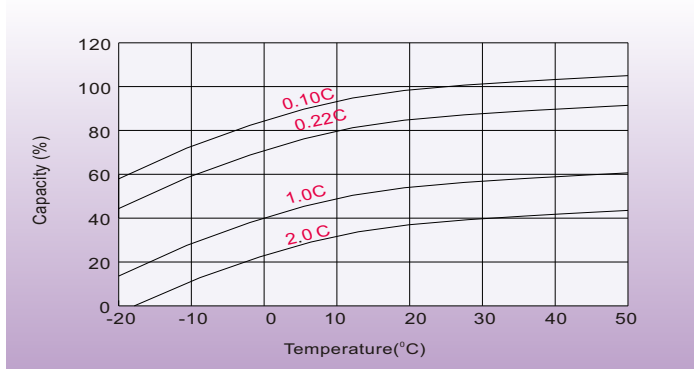
## Discharge Characteristics



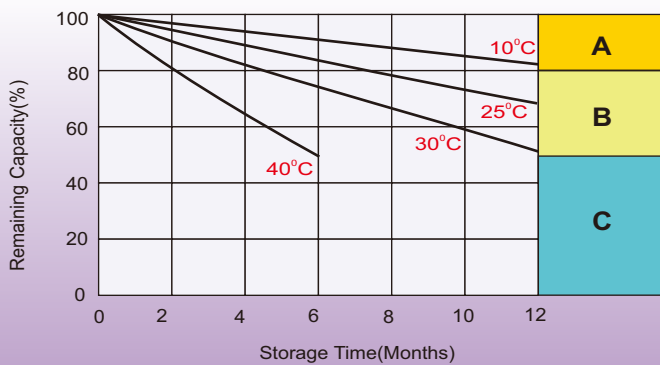
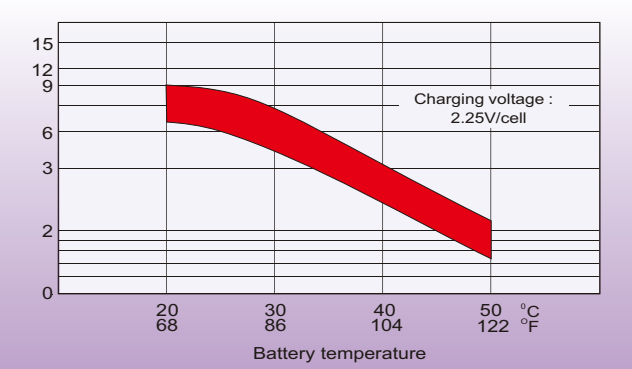
## Float Charging Characteristics



## 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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