

Specification

Nominal Voltage	12V	
Watts(15min Rate)	33.3 Watts at 1.67V/cell	
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	Approx 2.66 kg (5.87lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	9.00 AH/0.450A	(20hr, 1.75V/cell, 25°C/77°F)
	8.34 AH/0.834A	(10hr, 1.75V/cell, 25°C/77°F)
	7.47 AH/1.49A	(5hr, 1.75V/cell, 25°C/77°F)
	6.75AH/2.25A	(3hr, 1.75V/cell, 25°C/77°F)
	6.17 AH/6.17A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	135A (5s)	
Internal Resistance	Approx 17mΩ	
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 2.7A. 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	30.5	21.3	15.9	13.0	10.0	7.16	5.59	3.09	2.17	1.70	1.42	1.24	0.969	0.803	0.441
1.80V/cell	33.9	22.9	16.9	13.7	10.4	7.34	5.74	3.15	2.21	1.74	1.45	1.27	0.989	0.822	0.445
1.75V/cell	37.5	24.5	17.8	14.3	10.7	7.53	5.86	3.20	2.25	1.78	1.49	1.29	1.02	0.834	0.450
1.70V/cell	41.2	26.0	18.4	14.8	11.0	7.68	5.95	3.26	2.29	1.81	1.52	1.32	1.04	0.849	0.458
1.65V/cell	43.4	27.1	19.2	15.4	11.2	7.86	6.06	3.31	2.33	1.85	1.55	1.35	1.05	0.864	0.464
1.60V/cell	46.5	28.2	20.0	16.1	11.6	7.99	6.17	3.36	2.37	1.89	1.58	1.37	1.07	0.877	0.467

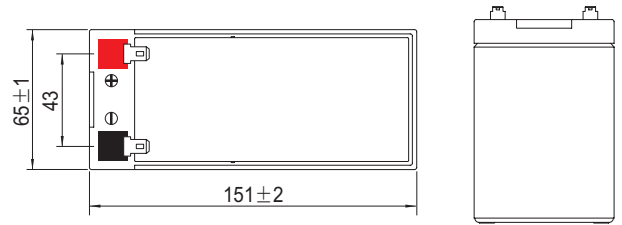
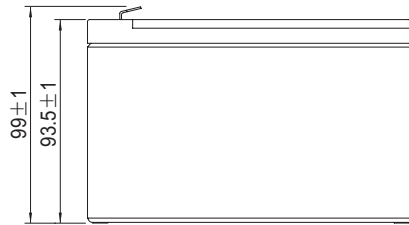
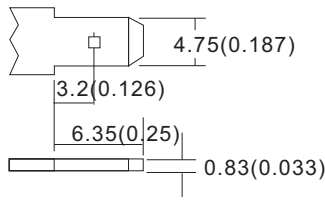
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	56.9	39.9	28.9	24.4	19.0	13.7	10.8	5.98	4.22	3.32	2.80	2.42	1.91	1.59	0.873
1.80V/cell	61.3	42.1	30.3	25.7	19.6	13.9	11.0	6.06	4.27	3.38	2.84	2.47	1.96	1.62	0.880
1.75V/cell	67.1	44.5	31.6	26.6	20.0	14.2	11.2	6.15	4.34	3.45	2.90	2.51	1.99	1.64	0.888
1.70V/cell	72.8	46.6	32.6	27.4	20.5	14.4	11.4	6.25	4.42	3.51	2.95	2.56	2.03	1.67	0.903
1.65V/cell	75.6	47.8	33.3	28.2	20.8	14.7	11.5	6.33	4.49	3.55	3.01	2.61	2.06	1.70	0.915
1.60V/cell	79.4	49.1	34.2	28.9	21.1	14.8	11.6	6.39	4.54	3.62	3.06	2.66	2.09	1.72	0.919

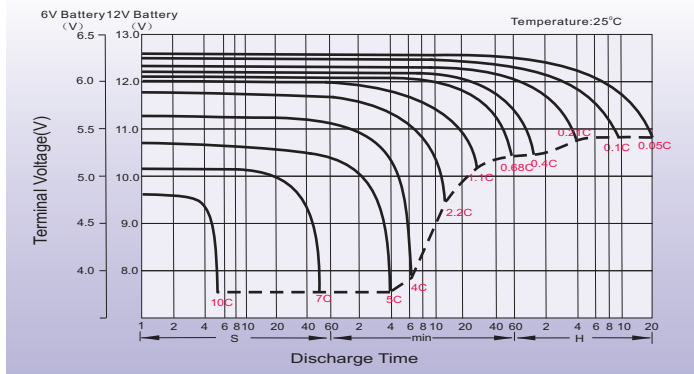
Dimensions

T1 Terminal

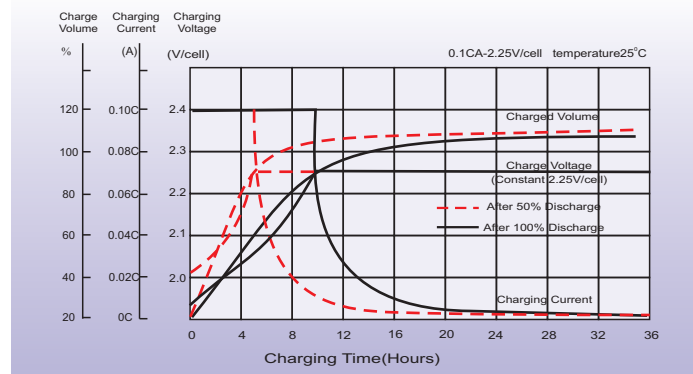
Unit: mm [inches]



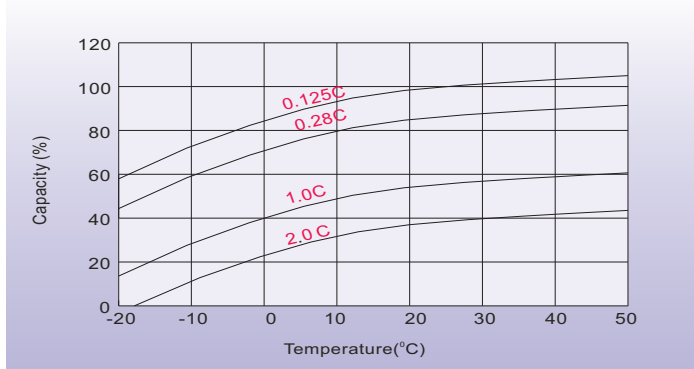
Discharge Characteristics



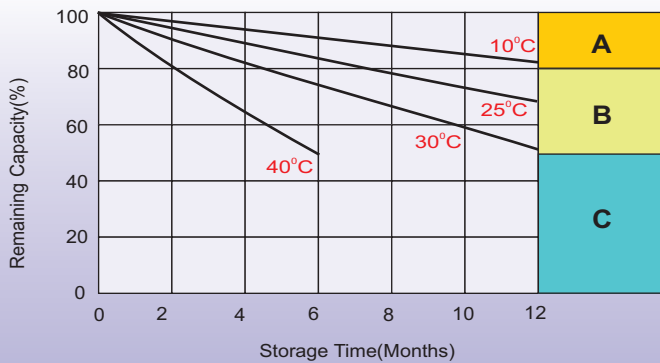
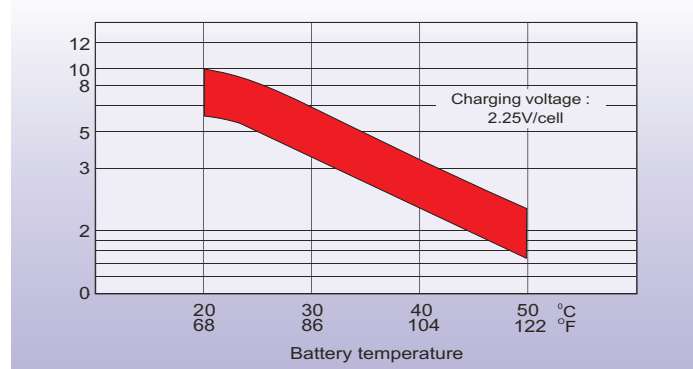
Float Charging Characteristics



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.

Sales Office

China sales office:

Add: 5th Floor, Xinbaohui Bldg., Nanhai Blvd.,
Nanshan, Shenzhen, China. 518052
Tel: +86-755-86036060 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com
Http://www.leoch.com

HongKong sales office:

Workshop C, 33/F, TML Tower,
No. 3 Hoi Shing Road, Tsuen Wan,
New Territories, Hong Kong
Tel: +852 35786666
Fax: +852 21170016
E-mail: sales.hk@leoch.com

Singapore sales office:

Add: No. 1 Tech Park Crescent,
Singapore 638131
Tel: +65 68636078
Fax: +65 68636079
Email sales.sg@leoch.com
Http://www.leoch.com

North America sales office:

Add: 19751 Descartes, Unit A,
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us
Http://www.leoch.com

Europe sales office:

Add: 9B Wheatstone Court. Waterwells
Business Park, Gloucester, GL2-2AQ,
UK United Kingdom
Tel: +44(0) 1452 729428 / 1452 729696
Fax: +44 (0)1452-690125
E-mail: Sales.Europe@leoch.com