

Specification

Nominal Voltage	12V	
Nominal Capacity(8HR)	7.6AH	
Dimension	Length	151±1mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	94.5±1mm (3.72 inches)
	Total Height (with Terminal)	100±1mm (3.94 inches)
Approx Weight	Approx 2.75 kg (6.06lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	7.94 AH/0.794A	(10hr, 1.80V/cell, 25°C/77°F)
	7.60 AH/0.95A	(8hr, 1.75V/cell, 25°C/77°F)
	6.76 AH/1.35A	(5hr, 1.75V/cell, 25°C/77°F)
	6.24 AH/2.08A	(3hr, 1.75V/cell, 25°C/77°F)
	5.42 AH/5.42A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	114A (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 2.28A. 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	14.8	12.1	9.72	8.59	6.70	5.07	4.19	2.47	1.90	1.50	1.20	1.07	0.880	0.749	0.428
1.80V/cell	19.9	15.4	11.7	10.2	7.91	5.90	4.70	2.70	2.04	1.60	1.29	1.14	0.934	0.794	0.432
1.75V/cell	22.5	17.0	12.8	10.9	8.21	6.12	4.91	2.80	2.08	1.64	1.35	1.17	0.950	0.802	0.435
1.70V/cell	24.7	18.5	13.7	11.5	8.54	6.37	5.07	2.91	2.14	1.68	1.38	1.20	0.963	0.810	0.444
1.65V/cell	27.3	20.0	14.6	12.2	9.01	6.53	5.24	2.99	2.23	1.74	1.40	1.23	0.979	0.827	0.450
1.60V/cell	30.1	21.7	15.6	13.0	9.52	6.80	5.42	3.09	2.30	1.79	1.44	1.25	0.988	0.835	0.452

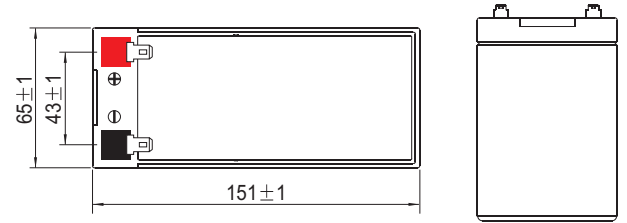
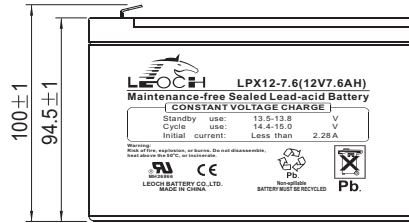
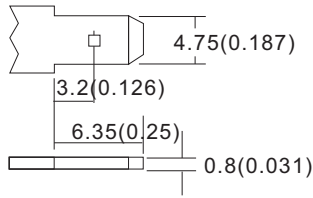
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.1	22.3	18.1	16.2	12.8	9.75	8.08	4.80	3.70	2.93	2.35	2.09	1.74	1.48	0.848
1.80V/cell	36.1	28.2	21.6	18.9	14.8	11.3	9.01	5.20	3.96	3.11	2.51	2.24	1.84	1.57	0.854
1.75V/cell	39.8	30.5	23.3	20.1	15.3	11.6	9.38	5.37	4.02	3.17	2.63	2.29	1.87	1.58	0.860
1.70V/cell	42.6	32.5	24.6	21.0	15.8	12.0	9.65	5.58	4.12	3.25	2.69	2.34	1.89	1.60	0.876
1.65V/cell	46.3	34.7	25.9	22.1	16.5	12.2	9.90	5.70	4.28	3.35	2.71	2.38	1.91	1.63	0.887
1.60V/cell	49.9	36.8	27.3	23.3	17.3	12.6	10.2	5.86	4.39	3.44	2.77	2.42	1.93	1.64	0.890

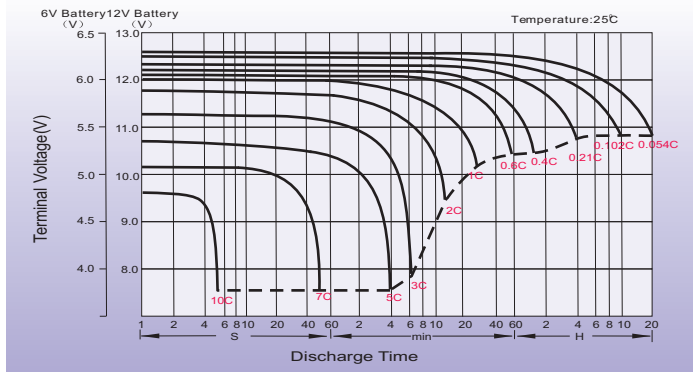
Dimensions

T1 Terminal

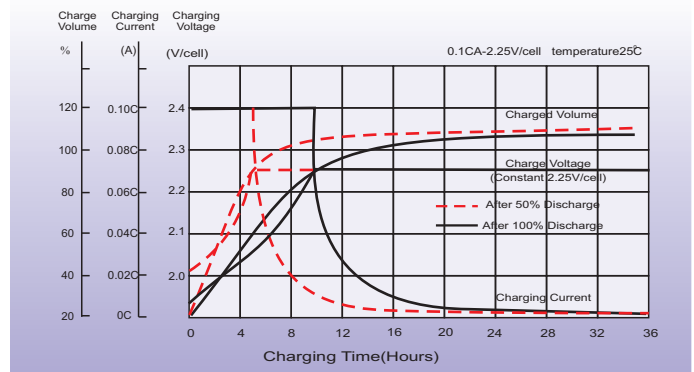
Unit: mm [inches]



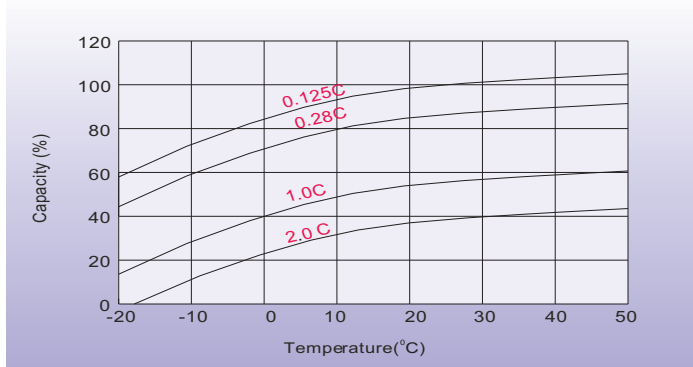
Discharge Characteristics



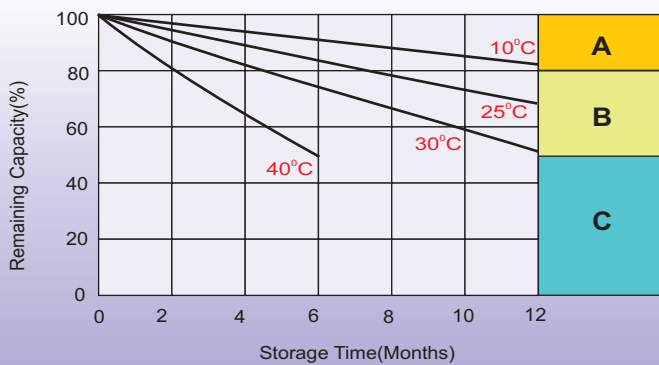
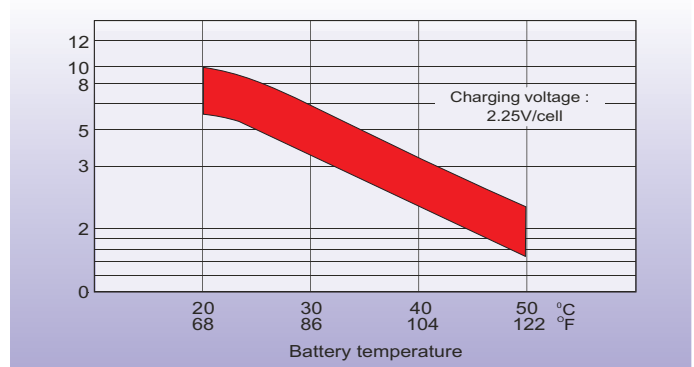
Float Charging Characteristics



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

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.us

Europe sales office:

Add: La Campagna House, Main Road,
Gloucester, GL2-8JH, United Kingdom
Tel: +44(0) 1452 751016
E-mail: Sales.Europe@leoch.com
Http://www.leoch.com