

### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	9.0AH	
Dimensions	Length	151 ± 1mm (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 2.70 kg (5.95lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity	9.00 AH/0.450A	(20hr, 1.80V/cell, 25°C/77°F)
	8.31 AH/0.831A	(10hr, 1.80V/cell, 25°C/77°F)
	7.55 AH/1.51A	(5hr, 1.75V/cell, 25°C/77°F)
	6.84 AH/2.28A	(3hr, 1.75V/cell, 25°C/77°F)
	6.24 AH/6.24A	(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 2.70A. 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 LP 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

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

### 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	30.8	21.5	16.1	13.1	10.1	7.24	5.65	3.12	2.19	1.72	1.44	1.25	0.98	0.812	0.446
1.80V/cell	34.3	23.2	17.1	13.9	10.5	7.42	5.80	3.18	2.23	1.76	1.47	1.28	1.00	0.831	0.450
1.75V/cell	37.9	24.8	18.0	14.5	10.8	7.61	5.93	3.24	2.28	1.80	1.51	1.30	1.03	0.843	0.455
1.70V/cell	41.7	26.3	18.6	15.0	11.1	7.77	6.02	3.30	2.32	1.83	1.54	1.33	1.05	0.858	0.463
1.65V/cell	43.9	27.4	19.4	15.6	11.3	7.95	6.13	3.35	2.36	1.87	1.57	1.36	1.06	0.874	0.469
1.60V/cell	47.0	28.5	20.2	16.3	11.7	8.08	6.24	3.40	2.40	1.91	1.60	1.39	1.08	0.887	0.472

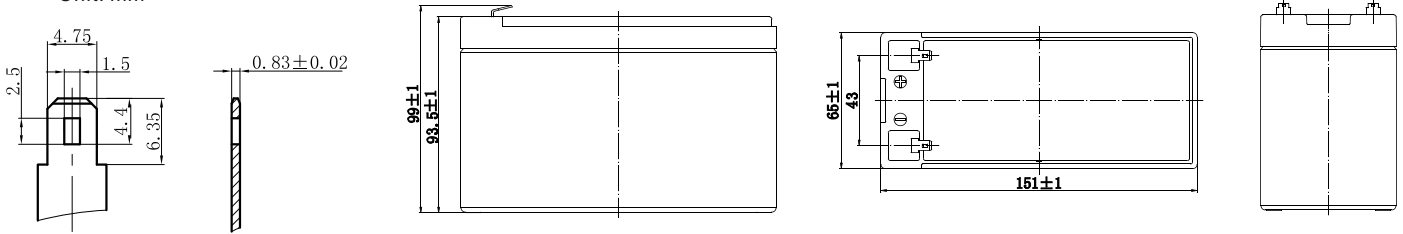
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	57.5	40.3	30.2	24.7	19.2	13.9	10.9	6.05	4.27	3.36	2.83	2.45	1.93	1.61	0.883
1.80V/cell	62.0	42.6	31.6	26.0	19.8	14.1	11.1	6.13	4.32	3.42	2.87	2.50	1.98	1.64	0.890
1.75V/cell	67.8	45.0	33.0	26.9	20.2	14.4	11.3	6.22	4.39	3.49	2.93	2.54	2.01	1.66	0.898
1.70V/cell	73.6	47.1	33.7	27.7	20.7	14.6	11.5	6.32	4.47	3.55	2.98	2.59	2.05	1.69	0.913
1.65V/cell	76.4	48.3	34.8	28.5	21.0	14.9	11.6	6.40	4.54	3.59	3.04	2.64	2.08	1.72	0.925
1.60V/cell	80.3	49.6	35.6	29.2	21.3	15.0	11.7	6.46	4.59	3.66	3.09	2.69	2.11	1.74	0.929

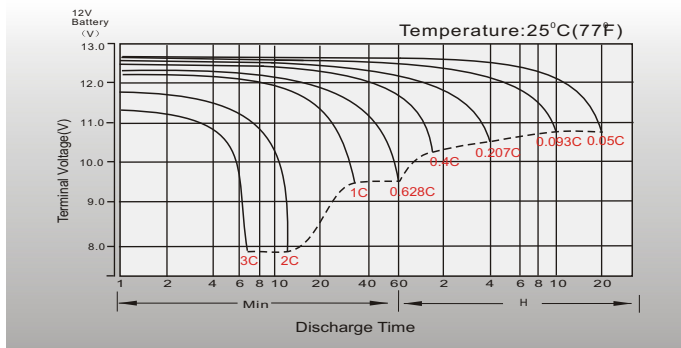
# Dimensions

## T1 Terminal

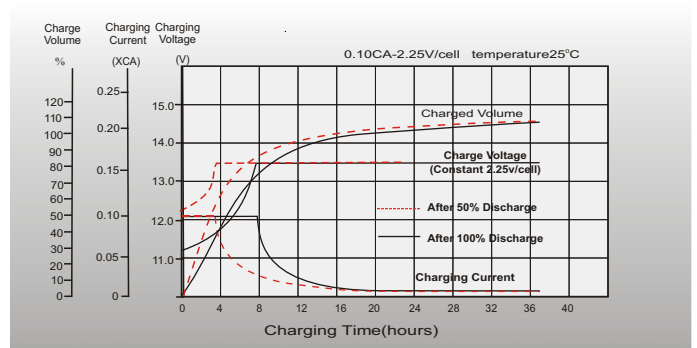
Unit: mm



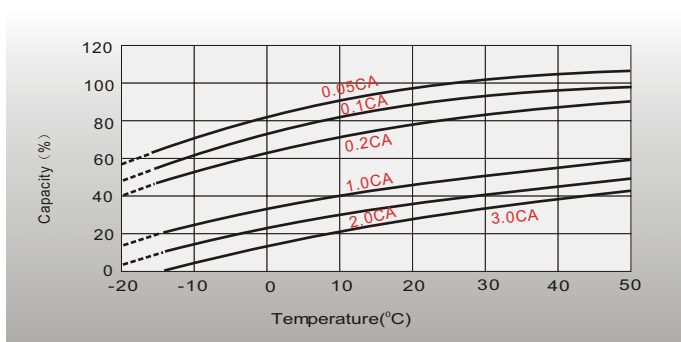
## Discharge Characteristics



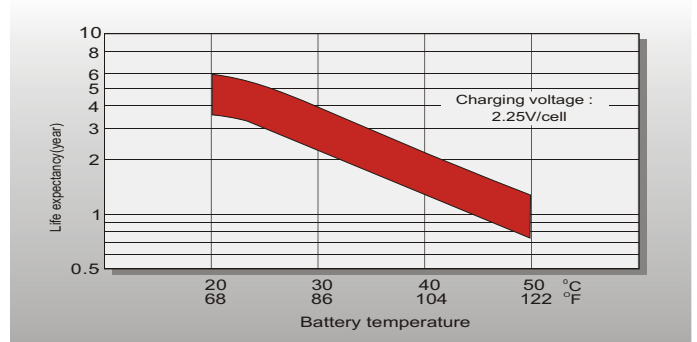
## Float Charging Characteristics



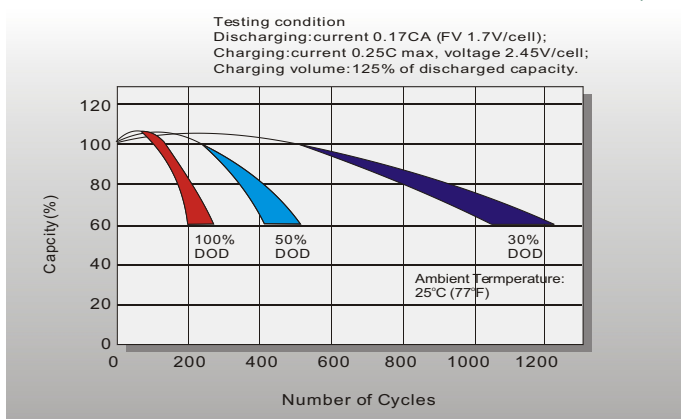
## Temperature Effects in Relation to Battery Capacity



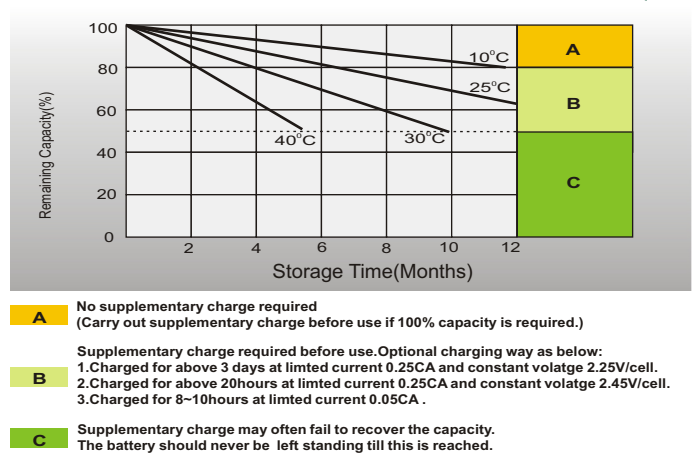
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## 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: 9B Wheatstone Park, Waterwells  
 Business Park, Gloucester, GL2 2AQ, UK.  
 Tel: +44(0) 01452 729428  
 Fax: +44 (0)1452-690125  
 E-mail: Sales.Europe@leoch.com

### Singapore sales office:

Add: No.53, Ubi Avenue 1, #03-21 Paya  
 Ubi Industrial Park, Singapore 408934  
 Tel: + 65 6841 6629  
 E-mail: sales.sg@leoch.com

### HongKong sales office:

Add: Unit 3910, 39/F, Cable TV Tower, No.9  
 Hoi Shing Road, Tsuen Wan, NT, H.K  
 Tel: +852 3578 6666  
 E-mail: sales.hk@leoch.com