

### Specification

Nominal Voltage	2V	
Capacity(10HR)	250.0AH (1.8V/cell,20°C)	
Dimension	Length	124±2mm (4.88 inches)
	Width	206±3mm (8.11 inches)
	Container Height	355±3mm (13.98 inches)
	Total Height (with Terminal)	410±3mm (16.14 inches)
Approx Weight	Without Electrolyte	15.4 kg (33.9lbs)
	With Electrolyte	20.4 kg (45.0lbs)
Container Material	SAN transparent container	
Rated Capacity	250.0 AH/25.0A	(10hr, 1.80V/cell, 25°C/77°F)
	222.0 AH/44.4A	(5hr, 1.75V/cell, 25°C/77°F)
	192.9 AH/64.3A	(3hr, 1.75V/cell, 25°C/77°F)
	142.8 AH/142.8A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 0.76mΩ	
Operating Temp.Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Type and number of poles	M8/2	
Charging	Floating voltage: 2.23V~2.25V at 20°C(68°F)Temp.	
	Boost charge: 2.30V~2.40V at 20°C(68°F)Temp.	
	Charging current(max.): 0.1CA	
	Temp.Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge (4% per month)	Leoch OPzS batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Applications

- ◆ Telecommunications.
- ◆ Radio and cellular telephone relay stations.
- ◆ Emergency lighting systems.
- ◆ Power stations, Conventional power stations,
- ◆ Alternative power (solar; wind).
- ◆ Large UPS and computer back-up.
- ◆ Railway signalling.
- ◆ Maritime standby power on ships and ashore.
- ◆ Standby power.
- ◆ Buoy lighting.
- ◆ Long service life, designed life 15-20 years.

### Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	189.5	164.7	142.8	112.5	93.0	69.5	55.9	47.3	40.9	32.4	26.7	14.5
1.65V/cell	178.0	158.3	138.0	109.7	90.9	68.3	55.1	46.6	40.3	32.0	26.4	14.4
1.70V/cell	169.0	149.3	132.8	106.2	88.8	66.3	53.8	45.6	39.6	31.4	26.0	14.2
1.75V/cell	158.5	142.3	126.0	101.2	85.0	64.3	52.2	44.4	38.6	30.9	25.6	13.9
1.80V/cell	141.0	128.3	116.0	94.8	79.9	61.0	50.0	42.6	37.2	30.0	25.0	13.7
1.85V/cell	112.5	106.3	99.3	84.3	72.5	55.8	46.2	39.9	35.0	28.6	23.9	13.1

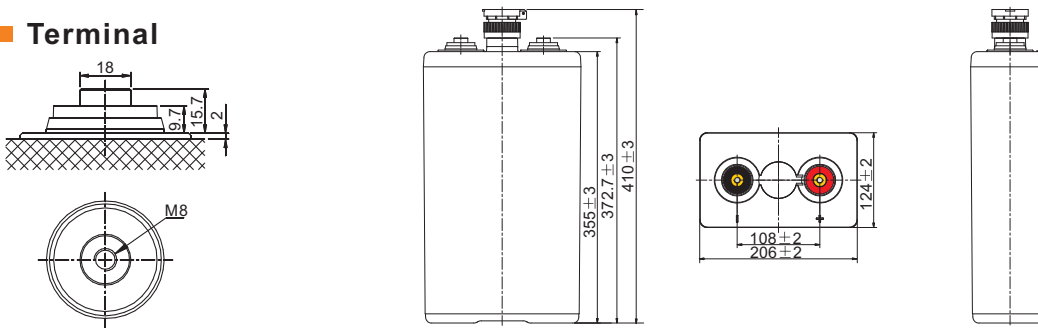
### Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	323.5	288.2	253.5	202.2	169.1	127.3	103.2	87.9	76.6	60.9	50.5	27.5
1.65V/cell	310.4	280.4	247.1	198.1	166.1	125.8	102.2	87.2	75.9	60.4	50.1	27.4
1.70V/cell	298.8	267.2	239.4	193.1	162.9	122.7	100.3	85.6	74.7	59.6	49.5	27.1
1.75V/cell	284.9	257.4	229.4	185.3	157.2	119.6	97.7	83.7	73.2	58.8	48.9	26.7
1.80V/cell	256.9	235.6	213.9	175.7	149.0	114.4	94.1	80.7	70.9	57.5	48.1	26.4
1.85V/cell	208.5	198.1	185.7	158.4	136.7	105.8	88.0	76.3	67.3	55.1	46.4	25.6

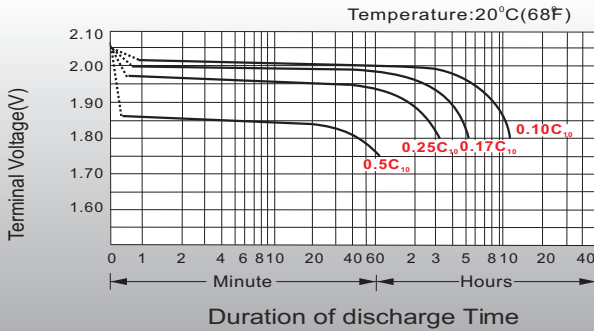
Specifications subject to change without notice.

## Dimensions

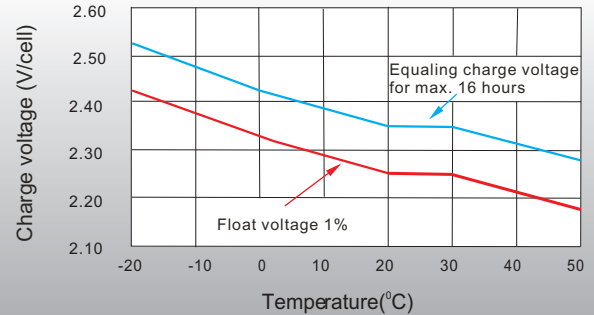
### Terminal



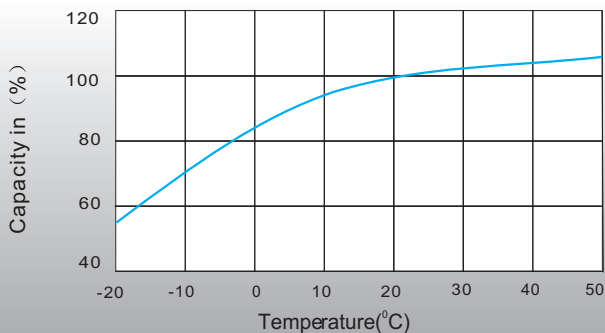
## Discharge Characteristics



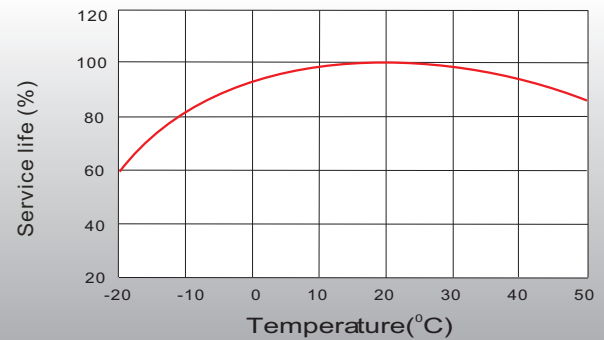
## Charge voltage Vs ambient temperature curve



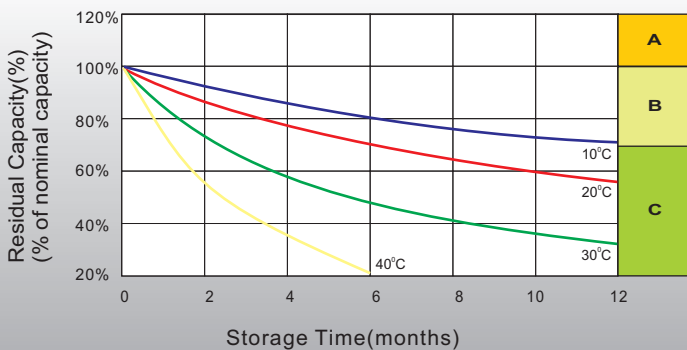
## Discharge capacity Vs Ambient temperature curve (I10A)



## Relation curves of service life and ambient temperature



## 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 0.1CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.1CA 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:

Add: 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 68416629  
Fax: +65 68443210  
Email sales.sg@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 Park, 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