

Specification

Nominal Voltage	2V	
Capacity(10HR)	420.0AH (1.8V/cell,20°C)	
Dimension	Length	145±2mm (5.71 inches)
	Width	206±3mm (8.11 inches)
	Container Height	471±3mm (18.5 inches)
	Total Height (with Terminal)	526±3mm (20.7 inches)
	Without Electrolyte	24.5 kg (54.0lbs)
Approx Weight	With Electrolyte 32.7 kg (72.1lbs)	
Container Material	SAN transparent container	
Rated Capacity	420.0 AH/42.0A	(10hr, 1.80V/cell, 20°C/68°F)
	373.0 AH/74.6A	(5hr, 1.75V/cell, 20°C/68°F)
	323.7 AH/107.9A	(3hr, 1.75V/cell, 20°C/68°F)
	239.8 AH/239.8A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	3360A (5s)	
Internal Resistance	Approx 0.58mΩ	
Operating Temp.Range	Discharge : -15~55°C (5~131°F)	
	Charge : 0~45°C (32~113°F)	
	Storage : -15~45°C (5~113°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	318.4	276.6	239.8	189.0	156.2	116.8	93.9	79.4	68.7	54.4	44.9	24.4
1.65V/cell	299.0	266.0	231.8	184.2	152.7	114.8	92.5	78.3	67.8	53.7	44.4	24.1
1.70V/cell	283.9	250.9	223.0	178.4	149.1	111.4	90.4	76.6	66.5	52.8	43.7	23.8
1.75V/cell	266.3	239.1	211.7	170.0	142.8	107.9	87.7	74.6	64.9	51.9	42.9	23.4
1.80V/cell	236.9	215.6	194.9	159.3	134.2	102.5	83.9	71.5	62.5	50.5	42.0	23.0
1.85V/cell	189.0	178.6	166.7	141.7	121.8	93.8	77.7	67.0	58.9	48.0	40.2	22.1

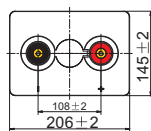
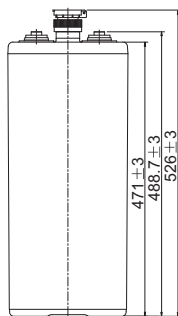
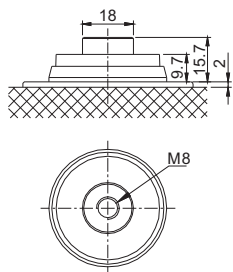
Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	543.4	484.1	425.8	339.8	284.1	213.8	173.4	147.7	128.7	102.2	84.8	46.2
1.65V/cell	521.6	471.0	415.0	332.9	279.0	211.3	171.8	146.4	127.5	101.5	84.2	46.0
1.70V/cell	502.0	448.9	402.3	324.4	273.7	206.1	168.4	143.8	125.5	100.1	83.1	45.5
1.75V/cell	478.7	432.4	385.4	311.3	264.0	200.9	164.2	140.7	122.9	98.8	82.1	44.9
1.80V/cell	431.6	395.8	359.4	295.2	250.3	192.2	158.1	135.5	119.1	96.6	80.8	44.3
1.85V/cell	350.2	332.7	312.0	266.1	229.7	177.8	147.8	128.1	113.1	92.5	77.9	43.0

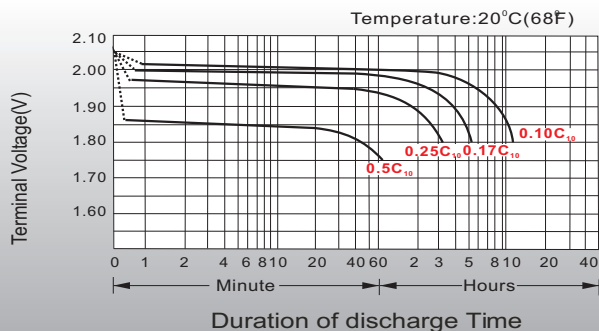
Specifications subject to change without notice.

Dimensions

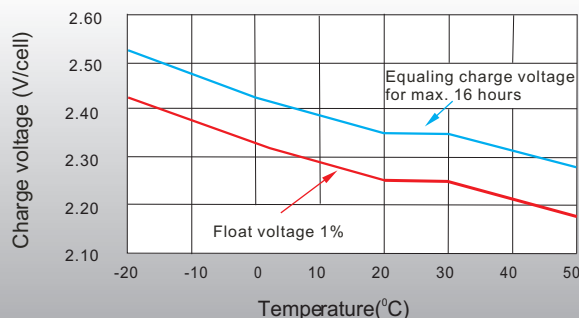
Terminal



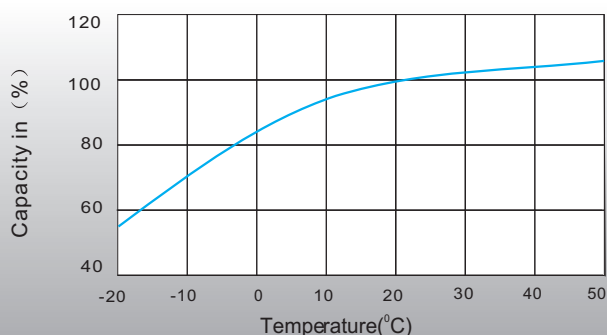
Discharge Characteristics



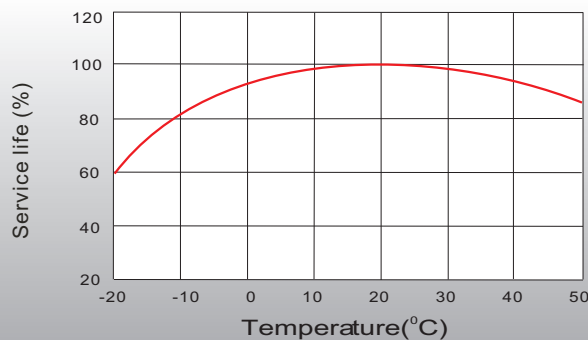
Charge voltage Vs ambient temperature curve



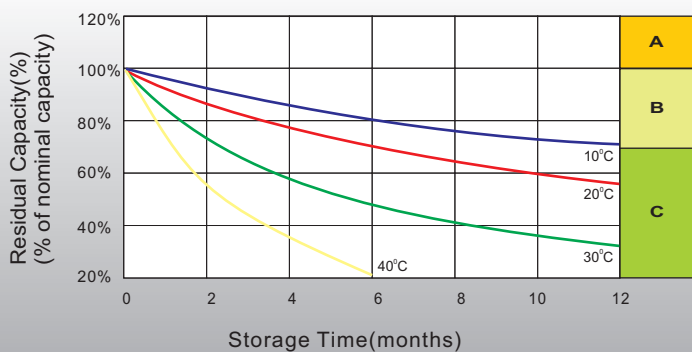
Discharge capacity Vs Ambient temperature curve (I10A)



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., Nanshai 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