

### Specification

Nominal Voltage	2V	
Capacity(10HR)	300.0AH (1.8V/cell,20°C)	
Dimension	Length	145±2mm (5.71 inches)
	Width	206±3mm (8.11 inches)
	Container Height	355±3mm (13.98 inches)
	Total Height (with Terminal)	410±3mm (16.14 inches)
	Without Electrolyte	18.5 kg (40.8lbs)
Approx Weight	With Electrolyte 24.5 kg (54.0lbs)	
Container Material	SAN transparent container	
Rated Capacity	300.0 AH/30.0A	(10hr, 1.80V/cell, 20°C/68°F)
	266.5 AH/53.3A	(5hr, 1.75V/cell, 20°C/68°F)
	231.3 AH/77.1A	(3hr, 1.75V/cell, 20°C/68°F)
	171.3 AH/171.3A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 0.7mΩ	
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)

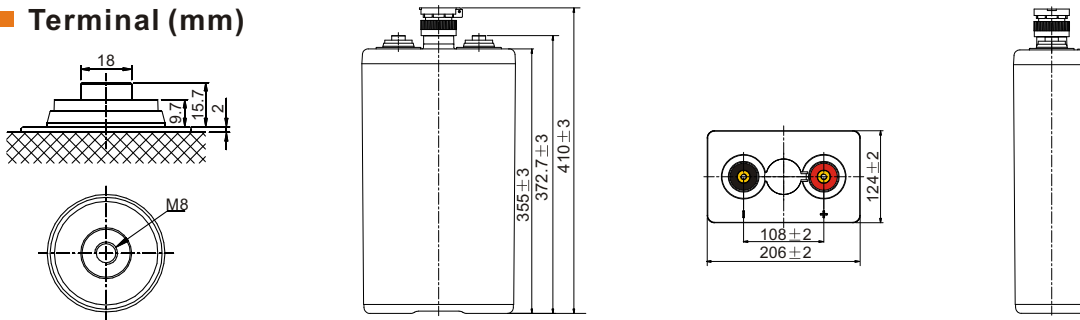
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	227.4	197.6	171.3	135.0	111.6	83.4	67.1	56.7	49.1	38.8	32.1	17.4
1.65V/cell	213.6	190.0	165.6	131.6	109.1	82.0	66.1	55.9	48.4	38.4	31.7	17.2
1.70V/cell	202.8	179.2	159.3	127.4	106.5	79.6	64.6	54.7	47.5	37.7	31.2	17.0
1.75V/cell	190.2	170.8	151.2	121.4	102.0	77.1	62.6	53.3	46.4	37.1	30.7	16.7
1.80V/cell	169.2	154.0	139.2	113.8	95.9	73.2	60.0	51.1	44.7	36.1	30.0	16.4
1.85V/cell	135.0	127.6	119.1	101.2	87.0	67.0	55.5	47.9	42.1	34.3	28.7	15.8

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

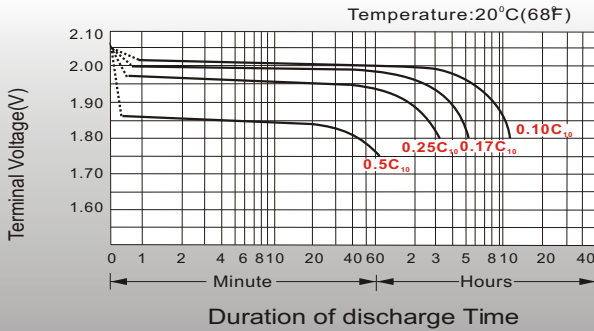
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	388.2	345.8	304.1	242.7	202.9	152.7	123.9	105.5	91.9	73.0	60.6	33.0
1.65V/cell	372.5	336.4	296.5	237.8	199.3	150.9	122.7	104.6	91.1	72.5	60.2	32.8
1.70V/cell	358.6	320.6	287.3	231.7	195.5	147.2	120.3	102.7	89.7	71.5	59.4	32.5
1.75V/cell	341.9	308.9	275.3	222.4	188.6	143.5	117.3	100.5	87.8	70.6	58.7	32.1
1.80V/cell	308.3	282.7	256.7	210.9	178.8	137.3	112.9	96.8	85.1	69.0	57.7	31.7
1.85V/cell	250.2	237.7	222.9	190.1	164.1	127.0	105.6	91.5	80.8	66.1	55.7	30.7

## Dimensions

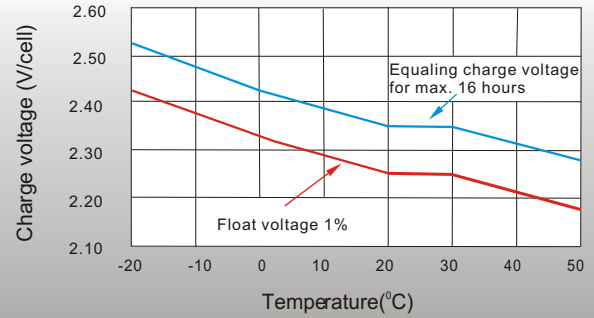
### Terminal (mm)



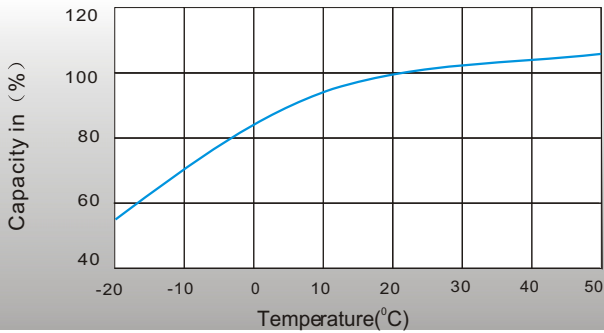
## Discharge Characteristics



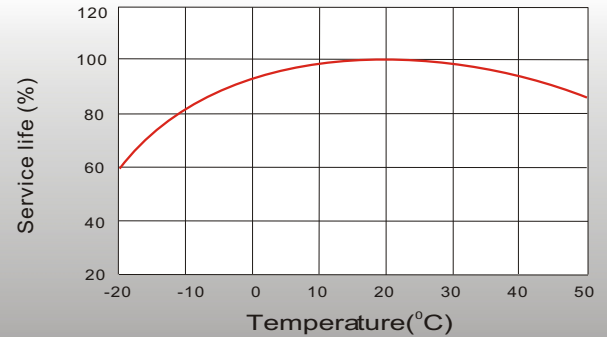
## Charge voltage Vs ambient temperature curve



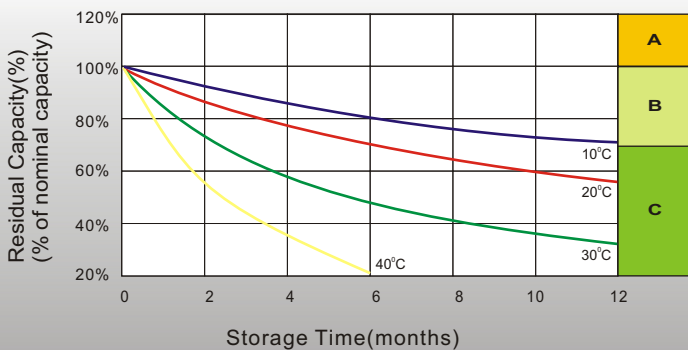
## Discharge capacity Vs Ambient temperature curve (I10A)



## 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.

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