

## Specification

Nominal Voltage	2V	
Capacity(10HR)	1283.0AH (1.8V/cell,20°C)	
Dimension	Length	275±2mm (10.8 inches)
	Width	210±3mm (8.27 inches)
	Container Height	646±3mm (25.4 inches)
	Total Height (with Terminal)	701±3mm (27.6 inches)
Approx Weight	Without Electrolyte	67.5 kg (148.8lbs)
	With Electrolyte	91.5 kg (201.7lbs)
Container Material	SAN transparent container	
Rated Capacity	1283.0 AH/128.3A	(10hr, 1.80V/cell, 20°C/68°F)
	1146.0 AH/229.2A	(5hr, 1.75V/cell, 20°C/68°F)
	968.4 AH/322.8A	(3hr, 1.75V/cell, 20°C/68°F)
	759.6 AH/759.6A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	9600A (5s)	
Internal Resistance (mΩ)	Approx 0.23	
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	M8/4	
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)	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: 20 years.

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

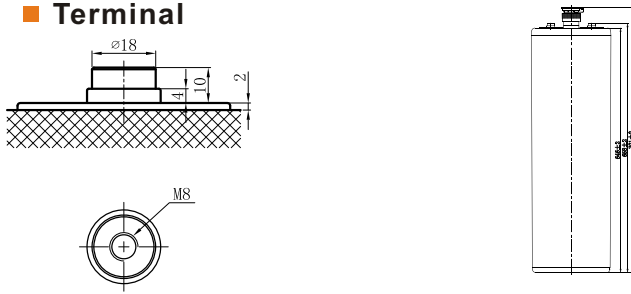
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1159.2	912.0	759.6	580.0	471.6	350.4	285.4	243.6	211.4	168.5	138.6	76.2
1.65V/cell	1094.4	868.8	734.4	560.0	459.0	345.5	281.9	239.3	209.1	165.3	136.4	75.1
1.70V/cell	1032.0	814.4	702.0	537.6	446.4	335.6	277.0	236.2	206.1	162.9	133.8	74.2
1.75V/cell	912.0	747.2	655.2	514.4	425.4	322.8	269.7	229.2	200.2	159.5	131.6	73.1
1.80V/cell	807.0	672.0	601.0	483.2	405.0	309.1	256.5	219.2	193.9	153.5	128.3	72.1
1.85V/cell	645.4	561.6	501.9	422.4	365.4	280.4	235.8	205.5	182.6	146.0	121.8	69.8

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

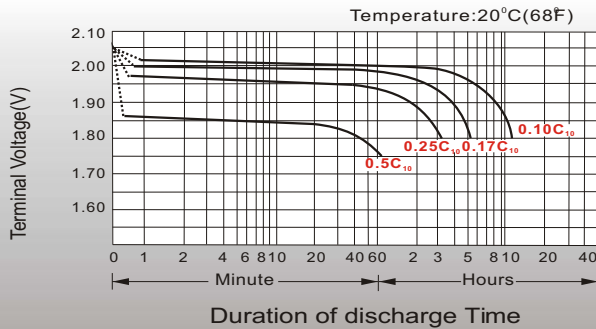
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1978.8	1596.0	1348.7	1042.7	857.6	641.7	527.3	453.2	395.8	316.8	261.7	144.4
1.65V/cell	1908.7	1538.4	1314.7	1011.8	838.9	635.9	523.5	447.4	393.5	312.4	258.9	143.0
1.70V/cell	1824.6	1457.2	1266.2	977.7	819.4	620.7	516.1	443.3	389.1	309.1	254.7	141.8
1.75V/cell	1639.6	1351.2	1193.0	942.3	786.5	600.8	505.1	432.2	379.2	303.6	251.8	140.4
1.80V/cell	1470.5	1233.7	1108.3	895.4	755.5	579.7	483.2	415.4	369.5	293.8	246.7	139.3
1.85V/cell	1196.0	1046.0	939.2	793.4	689.2	531.5	448.8	392.8	350.7	281.6	236.1	135.8

## Dimensions

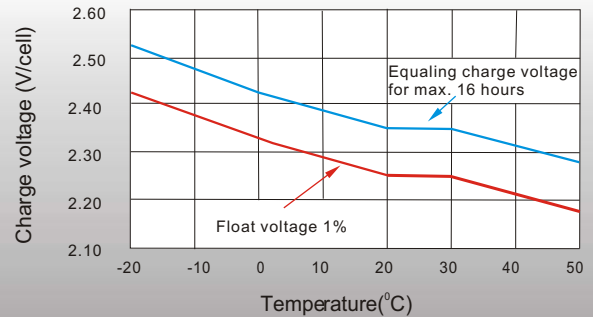
### Terminal



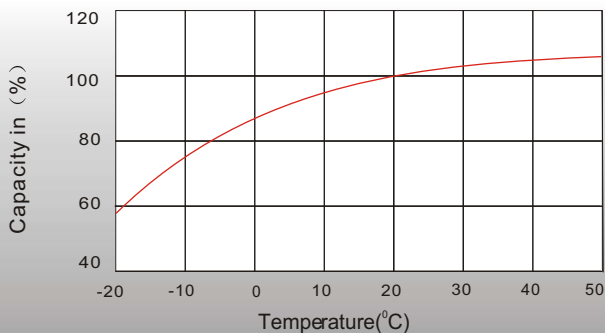
### Discharge Characteristics



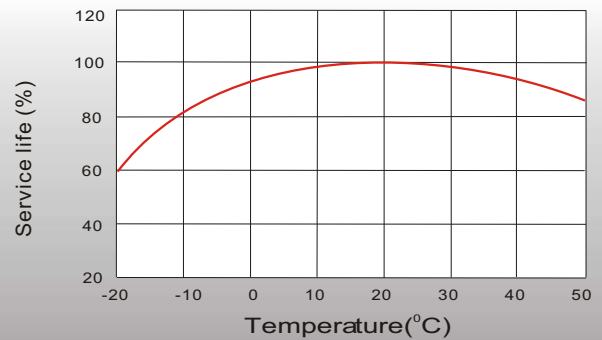
### Charge voltage Vs ambient temperature curve



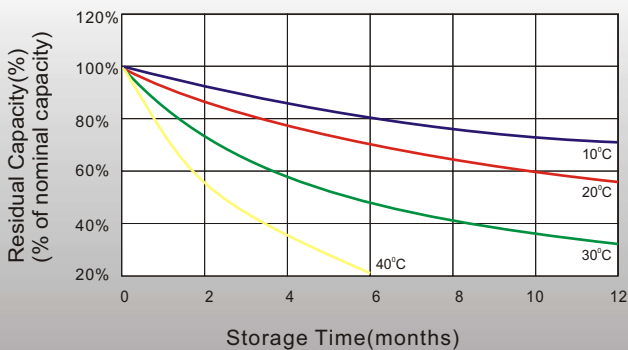
### Discharge capacity Vs Ambient temperature curve (I10A)



### 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 current 0.1C A and constant volatge 2.25V/cell.
  2. Charged for above 20hours at current 0.1C A and constant volatge 2.45V/cell.
  3. Charged for 8~10hours 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.