

Specification

Nominal Voltage	2V	
Capacity(10HR)	1646.0AH (1.8V/cell,20°C)	
Dimension	Length	275±3mm (10.8 inches)
	Width	210±3mm (8.27 inches)
	Container Height	796±3mm (31.3 inches)
	Total Height (with Terminal)	851±3mm (33.5 inches)
Approx Weight	Without Electrolyte	83.5 kg (184.1lbs)
	With Electrolyte	113.5 kg (250.3lbs)
Container Material	SAN transparent container	
Rated Capacity	1646.0 AH/164.6A	(10hr, 1.80V/cell, 25°C/77°F)
	1470.0 AH/294.0A	(5hr, 1.75V/cell, 25°C/77°F)
	1294.5 AH/431.5A	(3hr, 1.75V/cell, 25°C/77°F)
	1031.8 AH/1031.8A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	8000A (5s)	
Internal Resistance (mΩ)	Approx 0.21	
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)

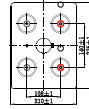
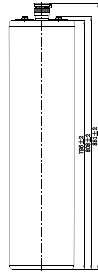
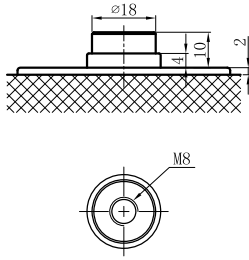
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1474.1	1216.0	1031.8	785.0	630.0	460.2	369.7	309.9	268.6	213.8	176.4	95.2
1.65V/cell	1379.8	1146.0	979.5	756.0	618.7	453.8	365.2	306.0	265.7	209.6	173.6	93.8
1.70V/cell	1258.3	1056.0	924.0	727.0	601.9	444.3	358.9	301.2	261.9	206.3	171.0	92.7
1.75V/cell	1123.4	956.0	852.0	690.0	577.0	431.5	349.5	294.0	254.4	202.1	167.7	91.5
1.80V/cell	945.4	840.0	762.6	624.0	529.2	406.0	332.3	280.8	246.4	197.0	164.6	90.2
1.85V/cell	756.1	702.0	636.8	528.0	455.6	355.7	298.0	263.3	232.0	187.5	155.1	87.2

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

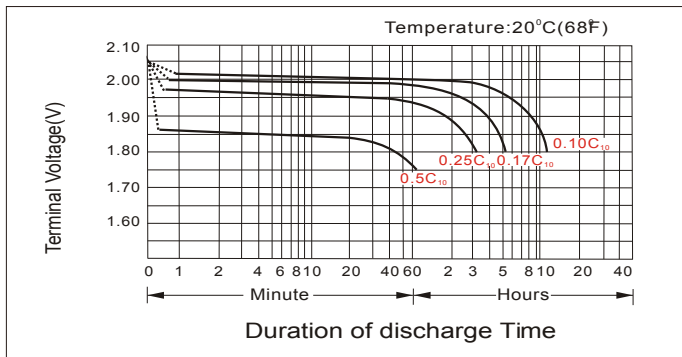
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2516.4	2128.0	1832.0	1411.2	1145.7	842.9	683.1	576.5	502.9	401.9	333.1	180.5
1.65V/cell	2406.4	2029.2	1753.5	1365.9	1130.7	835.2	678.2	572.1	500.0	396.2	329.3	178.8
1.70V/cell	2224.7	1889.5	1666.6	1322.2	1104.9	821.8	668.6	565.4	494.4	391.3	325.5	177.2
1.75V/cell	2019.5	1728.8	1551.3	1264.0	1066.8	803.2	654.4	554.5	481.8	384.8	320.8	175.8
1.80V/cell	1722.7	1542.2	1406.3	1156.3	987.2	761.4	626.0	532.1	469.6	377.1	316.5	174.1
1.85V/cell	1401.1	1307.5	1191.7	991.7	859.4	674.3	567.1	503.2	445.7	361.7	300.6	169.8

Dimensions

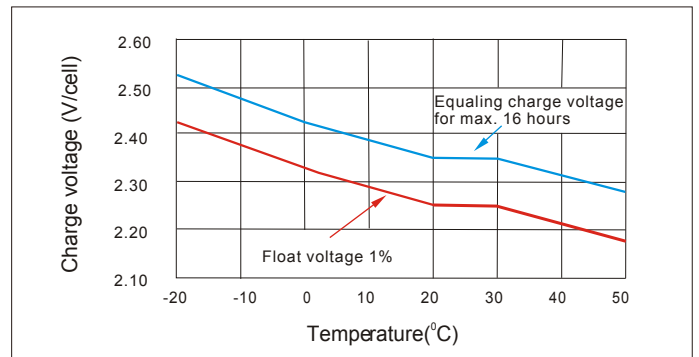
Terminal



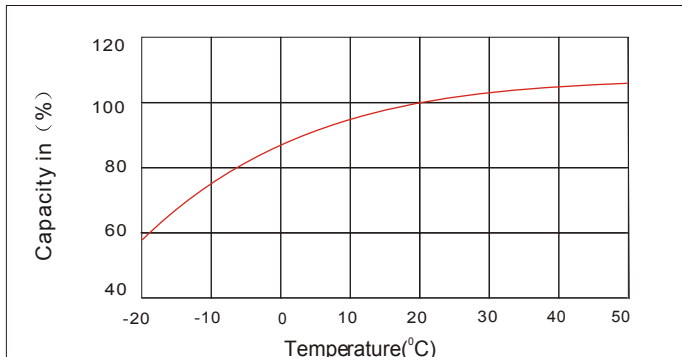
Discharge Characteristics



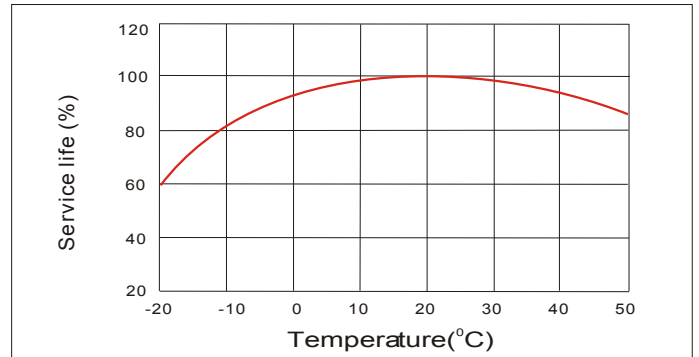
Charge voltage Vs ambient temperature curve



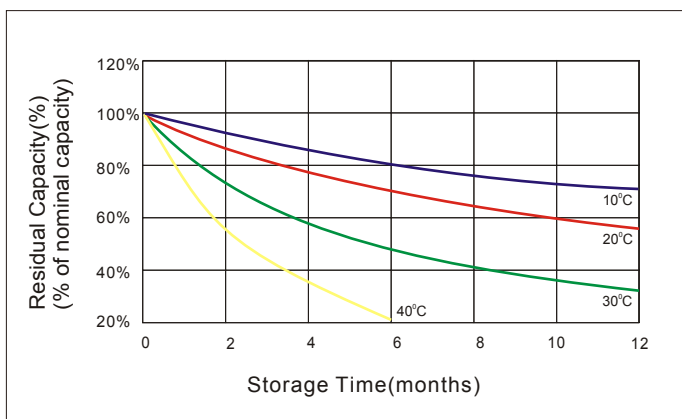
Discharge capacity Vs Ambient temperature curve (1I0A)



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 0.1CA and constant voltage 2.25V/cell.
2. Charged for above 20hours at current 0.1CA and constant voltage 2.45V/cell.

C

3. Charged for 8~10hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.

The battery should never be left standing till this is reached.