EAGLE EYE
POWER SOLUTIONS

Flooded Battery

5 OPzS250 (2V250AH)

Specification

Nomial 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

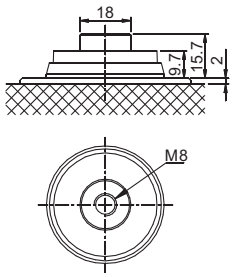
Constant Power Discharge (Watts) at 20 °C (68°F)

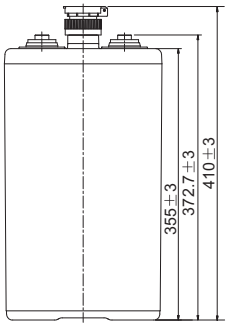
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	323.5	288.2	253.5	202.2	169.1	127.3	103.2	87.9	76.6	60.9	50.5	27.5
1.65V/cell	310.4	280.4	247.1	198.1	166.1	125.8	102.2	87.2	75.9	60.4	50.1	27.4
1.70V/cell	298.8	267.2	239.4	193.1	162.9	122.7	100.3	85.6	74.7	59.6	49.5	27.1
1.75V/cell	284.9	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

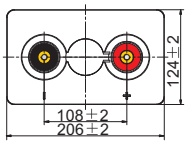
Specifications subject to changewithout notice.

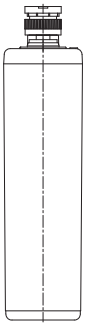
Dimensions

Terminal

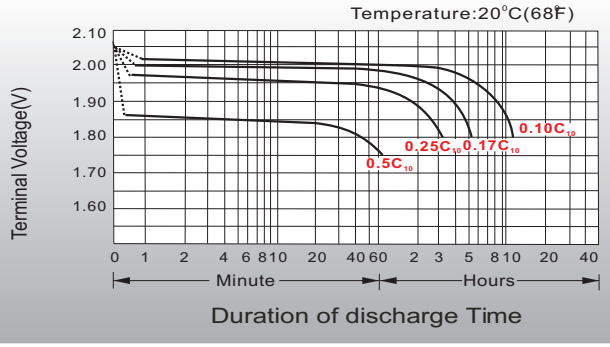




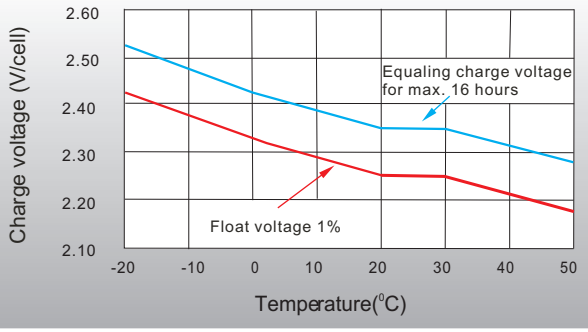




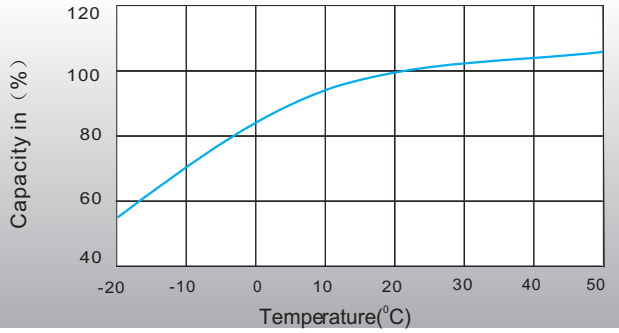
Discharge Characteristics



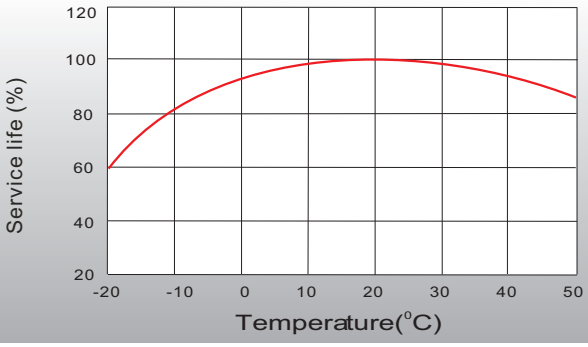
Charge voltage Vs ambient temperature curve



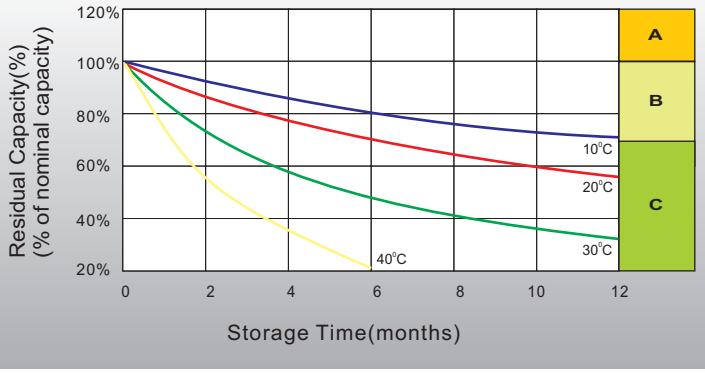
Discharge capacity Vs Ambient temperature curve (I10A)



Relantion 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 limted current 0.1CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.1CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted 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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