



OPzS Series-Flooded Battery

8 OPzS800(2V810.4Ah)

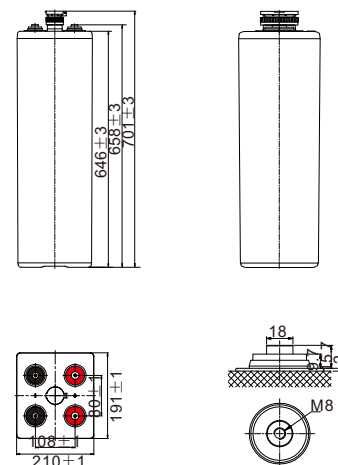


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	810.4Ah
Dimension	Length	191±2mm (7.52 inches)
	Width	210±3mm (8.27 inches)
	Container Height	646±3mm (25.43 inches)
	Total Height	701±3mm (27.60 inches)
Approx Weight	Without Electrolyte 46.9kg (103.2lbs) With Electrolyte 62.9 kg (138.4lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	820.0Ah	(10hr, 82.0A, 1.80V/cell)
	810.4Ah	(8hr, 101.3A, 1.75V/cell)
	728.5Ah	(5hr, 145.7A, 1.75V/cell)
	632.1Ah	(3hr, 210.7A, 1.75V/cell)
	468.2Ah	(1hr, 468.2A, 1.60V/cell)
Max. Discharge Current	6400A (5s)	
Internal Resistance (25°C)	Approx 0.55mΩ	
Operating Temp. Range	Discharge	-15 ~ 55°C (5 ~ 131°F)
	Charge	0 ~ 45°C (32 ~ 113°F)
	Storage	-15 ~ 45°C (5 ~ 113°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage	
	2.35V~2.40V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 25°C(77°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	369.0	348.8	325.5	276.6	237.8	183.2	151.6	130.9	114.9	93.7	78.5	43.1
1.80V/cell	462.5	421.0	380.5	311.1	262.0	200.1	163.9	139.6	122.1	98.5	82.0	44.8
1.75V/cell	519.9	466.9	413.3	331.8	278.8	210.7	171.2	145.7	126.7	101.3	83.8	45.7
1.70V/cell	554.3	489.8	435.4	348.2	291.1	217.6	176.5	149.7	129.8	103.0	85.3	46.4
1.65V/cell	583.8	519.4	452.6	359.7	298.1	224.2	180.6	152.9	132.3	104.9	86.7	47.2
1.60V/cell	621.6	540.1	468.2	369.0	305.0	228.0	183.3	155.0	134.2	106.2	87.7	47.6

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	683.8	649.6	609.2	519.6	448.5	347.2	288.5	250.1	220.8	180.7	152.2	83.9
1.80V/cell	842.8	772.7	701.6	576.4	488.7	375.3	308.7	264.7	232.6	188.6	157.6	86.5
1.75V/cell	934.6	844.3	752.5	607.8	515.5	392.3	320.5	274.7	240.0	192.9	160.3	87.7
1.70V/cell	980.0	876.4	785.4	633.3	534.3	402.4	328.8	280.9	245.1	195.5	162.3	88.9
1.65V/cell	1018.2	919.6	810.4	649.9	544.8	412.6	335.4	285.9	249.0	198.1	164.4	89.8
1.60V/cell	1061.0	945.2	831.3	663.4	554.7	417.5	338.7	288.3	251.2	199.7	165.5	90.2



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Applications

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

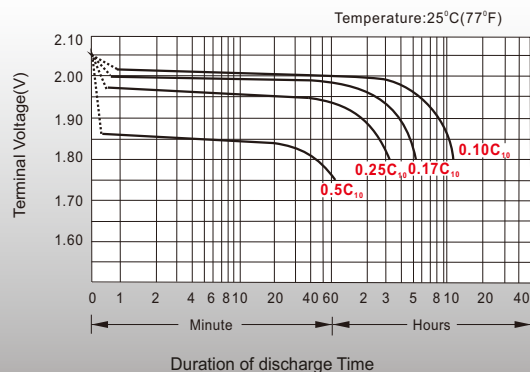
General Features

- 20 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

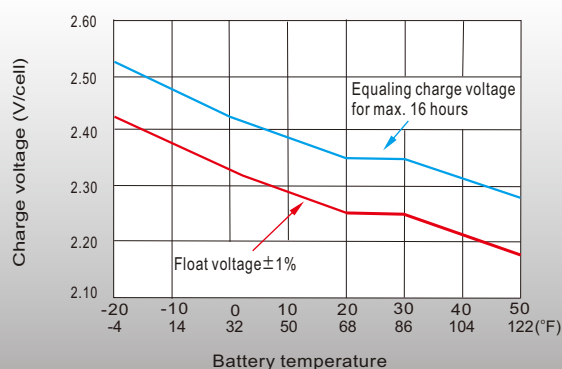
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

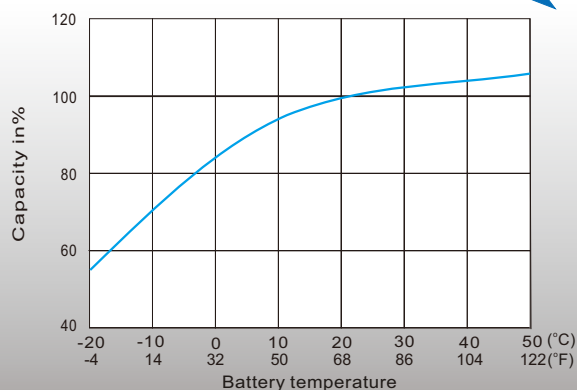
Discharge Characteristics



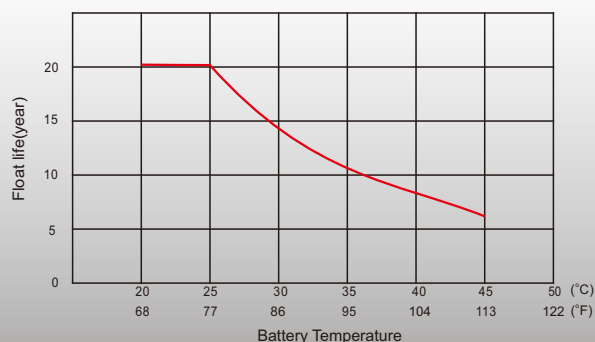
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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