



OPzS Series-Flooded Battery

10 OPzS1500(2V1519.2Ah)

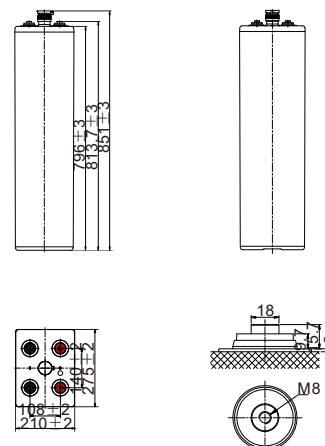


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	1519.2Ah
Dimension	Length	275±2mm (10.83 inches)
	Width	210±3mm (8.27 inches)
	Container Height	796±3mm (31.34 inches)
	Total Height	851±3mm (33.50 inches)
Approx Weight	Without Electrolyte	83.8kg (184.4lbs)
	With Electrolyte	113.8 kg (250.4lbs)
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1538.0 Ah	(10hr, 153.8A, 1.80V/cell)
	1519.2Ah	(8hr, 189.9A, 1.75V/cell)
	1365.5 Ah	(5hr, 273.1A, 1.75V/cell)
	1185.3 Ah	(3hr, 395.1A, 1.75V/cell)
	877.9Ah	(1hr, 877.9A, 1.60V/cell)
Max. Discharge Current	12000A (5s)	
Internal Resistance (25°C)	Approx 0.35mΩ	
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	691.9	654.0	610.4	518.7	445.9	343.4	284.3	245.4	215.6	175.6	147.2	80.8
1.80V/cell	867.2	789.3	713.4	583.2	491.3	375.2	307.3	261.8	228.9	184.8	153.8	84.1
1.75V/cell	974.8	875.4	774.9	622.2	522.8	395.1	320.9	273.1	237.6	189.9	157.1	85.7
1.70V/cell	1039.4	918.4	816.4	652.9	545.8	408.0	331.0	280.5	243.4	193.2	159.8	87.1
1.65V/cell	1094.7	973.8	848.7	674.5	558.9	420.3	338.7	286.7	248.1	196.6	162.5	88.4
1.60V/cell	1165.4	1012.7	877.9	691.9	572.0	427.4	343.7	290.6	251.5	199.1	164.4	89.2

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	1282.1	1218.0	1142.2	974.2	841.0	650.9	541.0	469.0	414.0	338.8	285.4	157.3
1.80V/cell	1580.1	1448.9	1315.6	1080.8	916.4	703.6	578.8	496.1	436.1	353.6	295.7	162.3
1.75V/cell	1752.4	1583.0	1410.9	1139.7	966.5	735.4	601.1	515.1	450.0	361.6	300.6	164.5
1.70V/cell	1837.6	1643.3	1472.5	1187.5	1001.8	754.5	616.5	526.5	459.5	366.5	304.3	166.6
1.65V/cell	1909.3	1724.3	1519.4	1218.5	1021.4	773.6	628.8	536.1	466.9	371.6	308.3	168.3
1.60V/cell	1989.4	1772.2	1558.7	1243.7	1040.1	782.8	634.9	540.6	471.0	374.3	310.5	169.0



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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

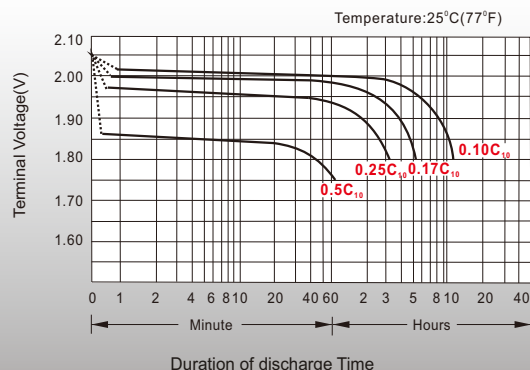
General Features

- 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

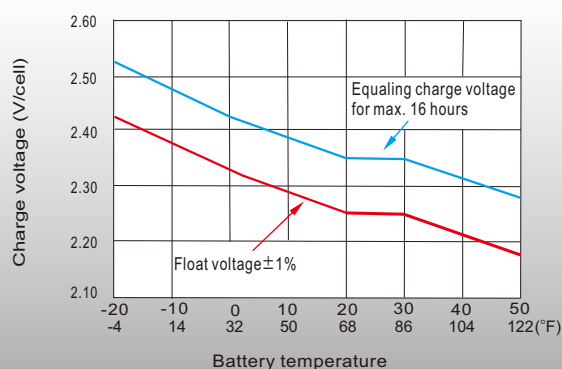
Standards

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

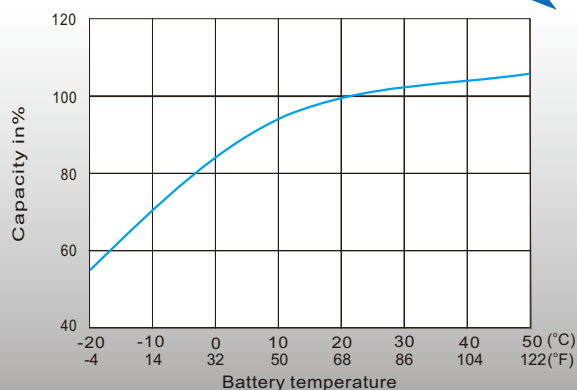
Discharge Characteristics



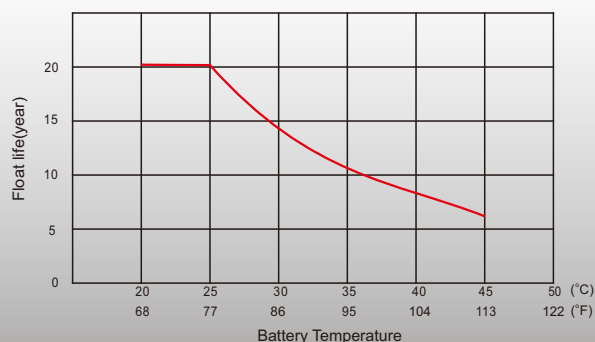
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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