



OPzS Series-Flooded Battery

10 OPzS1200(2V1216Ah)

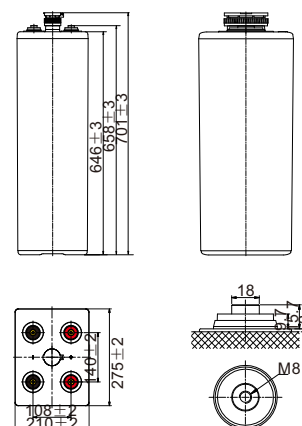


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₂₀ , 1.75V/cell	1216.0Ah
Dimension	Length	275±2mm (10.83 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 67.7kg (148.9lbs) With Electrolyte 91.7 kg (201.7lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1230.0 Ah	(10hr, 123.0A, 1.80V/cell)
	1216.0Ah	(8hr, 152.0A, 1.75V/cell)
	1092.5Ah	(5hr, 218.5A, 1.75V/cell)
	948.3Ah	(3hr, 316.1A, 1.75V/cell)
	702.3Ah	(1hr, 702.3A, 1.60V/cell)
Max. Discharge Current	9600A (5s)	
Internal Resistance (25°C)	Approx 0.40mΩ	
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	553.5	523.2	488.3	414.9	356.7	274.7	227.4	196.3	172.4	140.5	117.8	64.7
1.80V/cell	693.7	631.4	570.7	466.6	393.0	300.1	245.8	209.5	183.1	147.8	123.0	67.2
1.75V/cell	779.8	700.3	619.9	497.7	418.2	316.1	256.8	218.5	190.0	152.0	125.8	68.5
1.70V/cell	831.5	734.7	653.1	522.3	436.7	326.4	264.8	224.4	194.8	154.6	127.8	69.7
1.65V/cell	875.8	779.0	679.0	539.6	447.1	336.2	270.9	229.4	198.4	157.3	130.0	70.6
1.60V/cell	932.3	810.2	702.3	553.5	457.6	341.9	274.9	232.5	201.2	159.3	131.5	71.3

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	1025.6	974.5	913.8	779.3	672.8	520.7	432.9	375.3	331.2	271.0	228.3	125.9
1.80V/cell	1264.1	1159.2	1052.5	864.6	733.1	562.8	463.1	396.9	348.9	282.9	236.6	129.8
1.75V/cell	1401.9	1266.4	1128.7	911.7	773.3	588.4	480.8	412.1	360.0	289.4	240.5	131.6
1.70V/cell	1470.1	1314.7	1178.0	950.0	801.4	603.6	493.2	421.3	367.7	293.3	243.4	133.3
1.65V/cell	1527.5	1379.3	1215.4	974.9	817.1	618.8	503.1	428.9	373.5	297.3	246.7	134.6
1.60V/cell	1591.5	1417.8	1247.0	995.1	832.1	626.3	507.9	432.4	376.8	299.4	248.4	135.2



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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

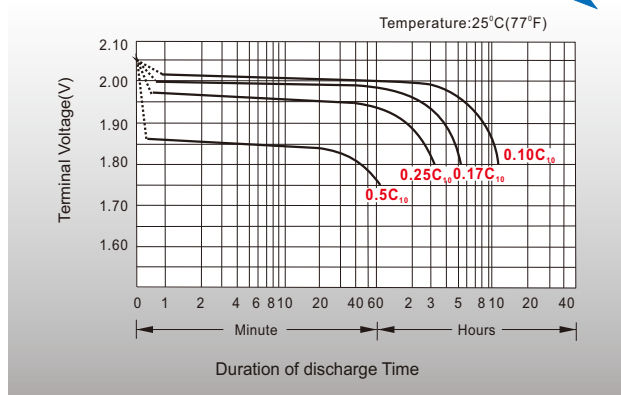
General Features

- 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

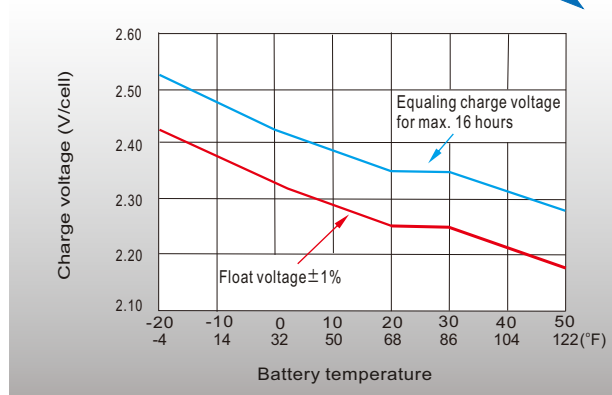
Standards

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

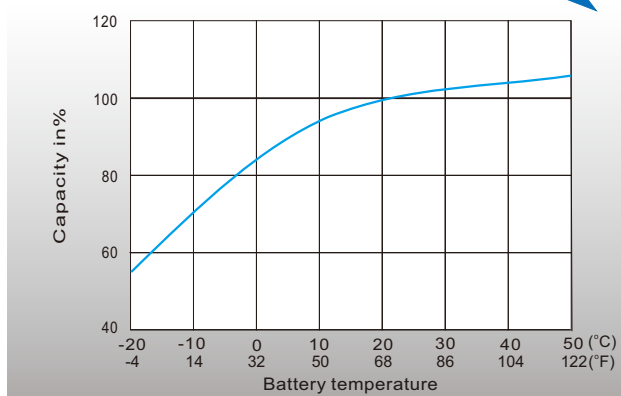
Discharge Characteristics



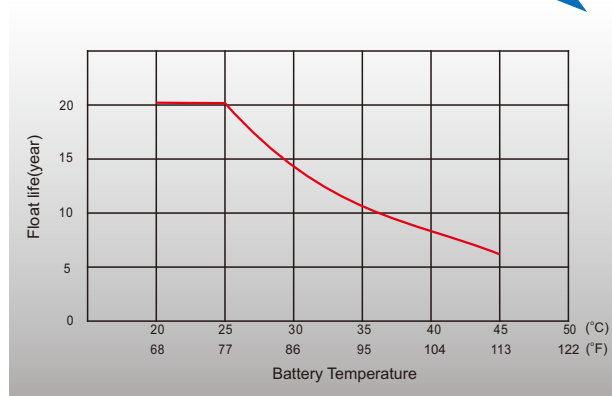
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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