



OPzS Series-Flooded Battery

12 OPzS1200(2V1200Ah)

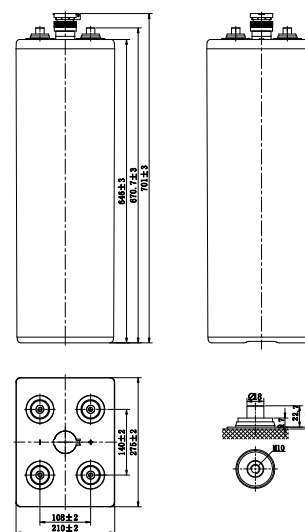


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	1200.0Ah
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	91.7kg (201.7lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1200.0 Ah	(10hr, 120.0A, 1.80V/cell)
	1066.0 Ah	(5hr, 213.2A, 1.75V/cell)
	925.2 Ah	(3hr, 308.4A, 1.75V/cell)
	685.2 Ah	(1hr, 685.2A, 1.60V/cell)
Max. Discharge Current	9600A (5s)	
Internal Resistance (25°C)	Approx 0.30mΩ	
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 20°C(68°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 20°C(68°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 20 °C (68°F)

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	909.6	790.4	685.2	540.0	446.4	333.6	268.2	226.8	196.3	155.4	128.3	69.6
1.65V/cell	854.4	760.0	662.4	526.4	436.2	328.0	264.3	223.8	193.6	153.5	126.8	68.9
1.70V/cell	811.2	716.8	637.2	509.6	426.0	318.4	258.3	218.9	190.0	150.8	124.7	68.0
1.75V/cell	760.8	683.2	604.8	485.6	408.0	308.4	250.5	213.2	185.4	148.3	122.7	66.8
1.80V/cell	676.8	616.0	556.8	455.2	383.4	292.8	239.8	204.4	178.6	144.2	120.0	65.6
1.85V/cell	540.0	510.4	476.4	404.8	348.0	268.0	221.9	191.5	168.2	137.1	114.9	63.1

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

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1552.7	1383.2	1216.6	970.8	811.8	611.0	495.5	421.9	367.6	292.1	242.3	131.9
1.65V/cell	1490.2	1345.7	1185.8	951.1	797.2	603.7	490.8	418.4	364.4	290.0	240.7	131.3
1.70V/cell	1434.2	1282.6	1149.3	926.8	781.9	588.9	481.2	411.0	358.7	286.1	237.5	130.0
1.75V/cell	1367.7	1235.5	1101.2	889.5	754.4	574.0	469.1	402.0	351.2	282.3	234.6	128.4
1.80V/cell	1233.3	1130.9	1026.8	843.5	715.2	549.1	451.8	387.2	340.4	276.0	230.8	126.6
1.85V/cell	1000.6	950.7	891.5	760.3	656.4	508.0	422.3	366.1	323.1	264.4	222.7	122.8



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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

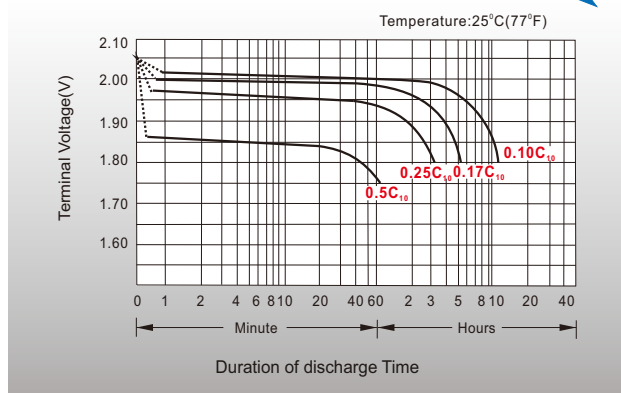
General Features

- 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

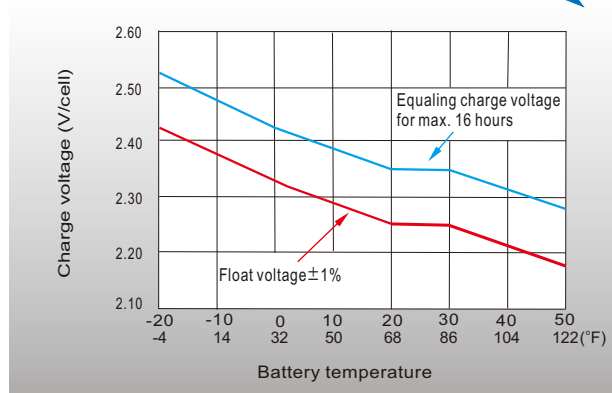
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch@IATF 16949, ISO 145001, ISO 9001 and ISO 14001 certified production facilities

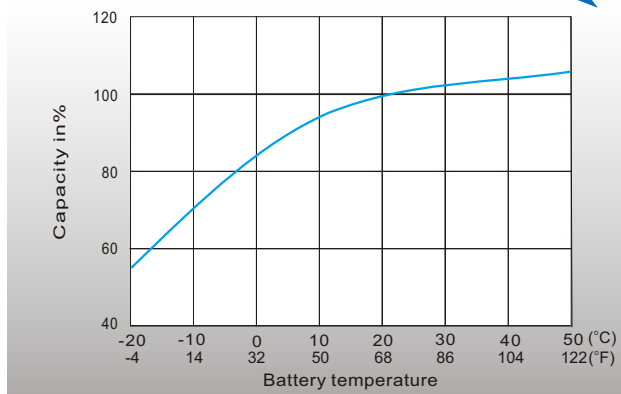
Discharge Characteristics



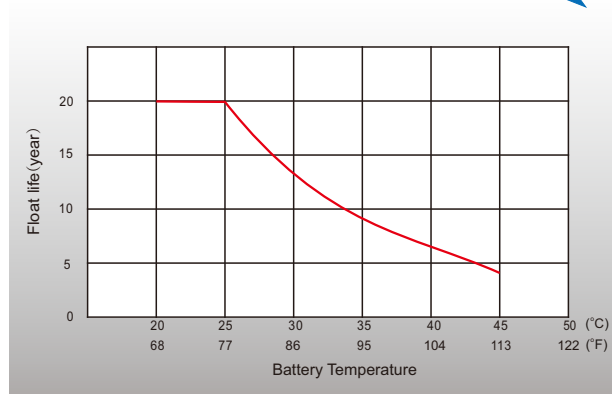
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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Publication No.:LB-12 OPzS1200-PD-EN-V2.0-202106