



OPzS Series-Flooded Battery

10 OPzS1000(2V1000Ah)

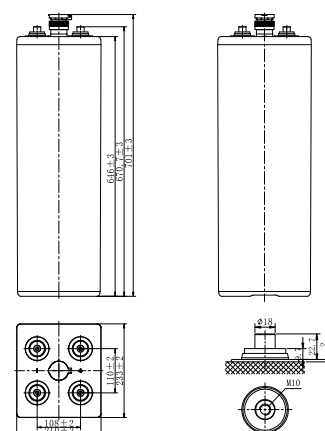


Specifications

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/cell$	1000.0Ah
Dimension	Length	233±2mm (9.13 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	57.4kg (126.3lbs)
	With Electrolyte	77.4 kg (170.3lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	888.0 Ah	(5hr, 177.6A, 1.75V/cell)
	771.0 Ah	(3hr, 257.0A, 1.75V/cell)
	571.0 Ah	(1hr, 571.0A, 1.60V/cell)
Max. Discharge Current	8000A (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 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	758.0	658.7	571.0	450.0	372.0	278.0	223.5	189.0	163.6	129.5	106.9	58.0
1.65V/cell	712.0	633.3	552.0	438.7	363.5	273.3	220.3	186.5	161.4	127.9	105.7	57.5
1.70V/cell	676.0	597.3	531.0	424.7	355.0	265.3	215.3	182.4	158.3	125.6	104.0	56.7
1.75V/cell	634.0	569.3	504.0	404.7	340.0	257.0	208.8	177.6	154.5	123.6	102.2	55.7
1.80V/cell	564.0	513.3	464.0	379.3	319.5	244.0	199.9	170.3	148.8	120.2	100.0	54.7
1.85V/cell	450.0	425.3	397.0	337.3	290.0	223.3	184.9	159.6	140.2	114.2	95.7	52.6

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	1293.9	1152.7	1013.8	809.0	676.5	509.2	412.9	351.6	306.3	243.4	201.9	109.9
1.65V/cell	1241.8	1121.4	988.2	792.6	664.3	503.1	409.0	348.7	303.7	241.7	200.6	109.4
1.70V/cell	1195.2	1068.8	957.8	772.3	651.6	490.8	401.0	342.5	298.9	238.4	197.9	108.3
1.75V/cell	1139.8	1029.6	917.7	741.3	628.6	478.3	390.9	335.0	292.7	235.2	195.5	107.0
1.80V/cell	1027.7	942.4	855.7	702.9	596.0	457.6	376.5	322.7	283.6	230.0	192.3	105.5
1.85V/cell	833.9	792.2	742.9	633.6	547.0	423.3	351.9	305.0	269.2	220.3	185.6	102.3



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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

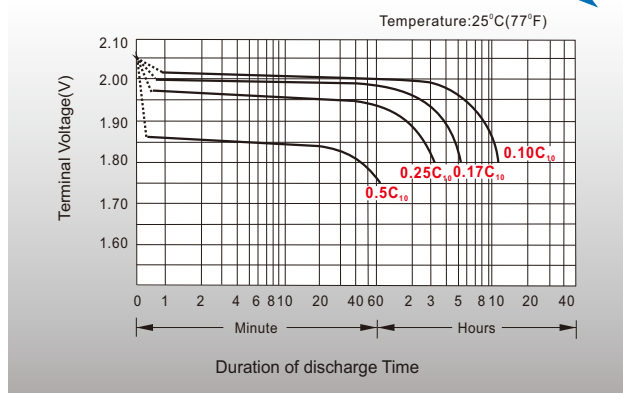
General Features

- 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

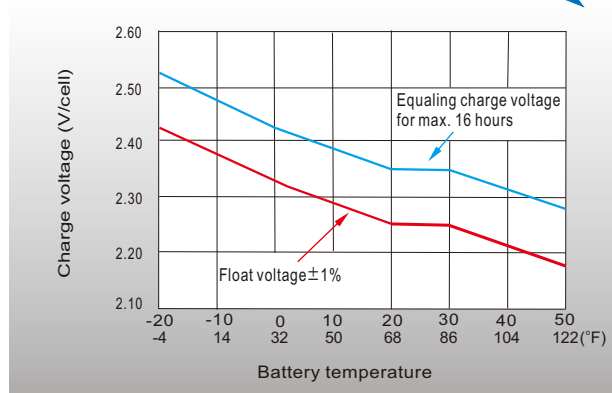
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

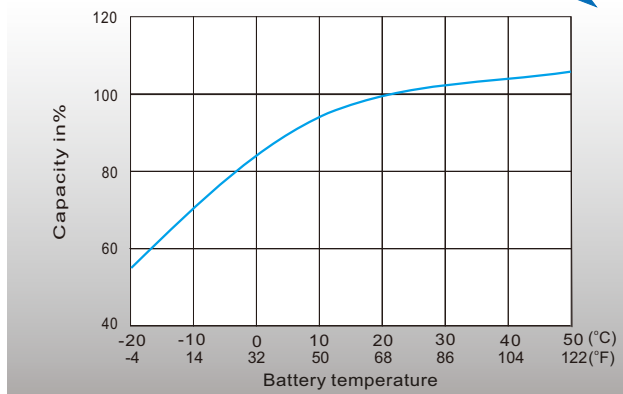
Discharge Characteristics



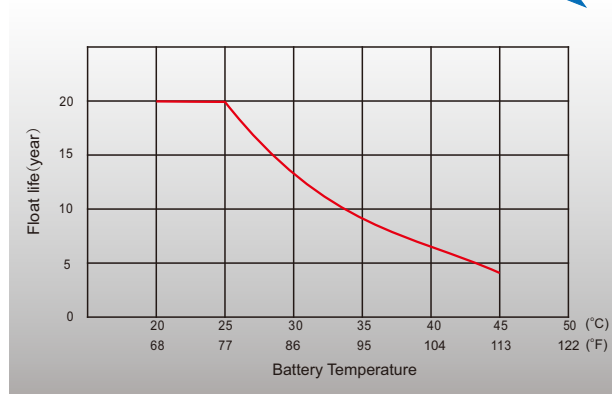
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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Publication No.:LB-10 OPzS1000-PD-EN-V2.1-202105