



OPzS Series-Flooded Battery

12 OPzS1500(2V1500Ah)

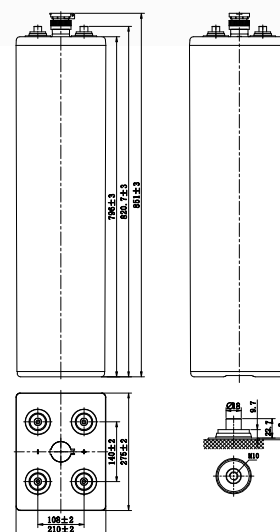


Specifications

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/cell$	1500.0Ah
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	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	1500.0 Ah	(10hr, 150.0A, 1.80V/cell)
	1332.0 Ah	(5hr, 266.4A, 1.75V/cell)
	1156.5 Ah	(3hr, 385.4A, 1.75V/cell)
	856.5 Ah	(1hr, 856.5A, 1.60V/cell)
Max. Discharge Current	12000A (5s)	
Internal Resistance (25°C)	Approx 0.45mΩ	
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	1137.0	988.0	856.5	675.0	558.0	417.0	335.3	283.5	245.4	194.2	160.4	87.0
1.65V/cell	1068.0	950.0	828.0	658.0	545.3	410.0	330.4	279.7	242.0	191.8	158.5	86.2
1.70V/cell	1014.0	896.0	796.5	637.0	532.5	398.0	322.9	273.7	237.5	188.5	155.9	85.0
1.75V/cell	951.0	854.0	756.0	607.0	510.0	385.5	313.1	266.4	231.8	185.3	153.3	83.6
1.80V/cell	846.0	770.0	696.0	569.0	479.3	366.0	299.8	255.4	223.3	180.3	150.0	82.0
1.85V/cell	675.0	638.0	595.5	506.0	435.0	335.0	277.4	239.4	210.3	171.3	143.6	78.8

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	1940.9	1729.0	1520.7	1213.4	1014.7	763.7	619.4	527.4	459.5	365.2	302.9	164.9
1.65V/cell	1862.7	1682.2	1482.3	1188.8	996.5	754.7	613.5	523.0	455.5	362.5	300.8	164.2
1.70V/cell	1792.8	1603.2	1436.6	1158.5	977.4	736.1	601.5	513.7	448.3	357.6	296.9	162.5
1.75V/cell	1709.7	1544.4	1376.5	1111.9	942.9	717.5	586.4	502.5	439.0	352.8	293.3	160.5
1.80V/cell	1541.6	1413.6	1283.5	1054.4	894.0	686.4	564.7	484.0	425.5	345.0	288.5	158.3
1.85V/cell	1250.8	1188.3	1114.3	950.4	820.5	635.0	527.8	457.6	403.9	330.5	278.4	153.5



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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

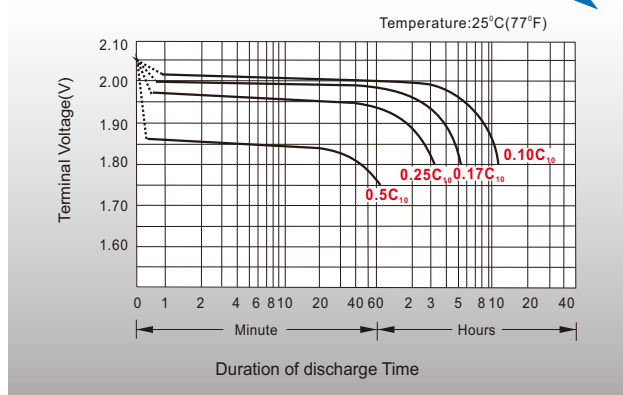
General Features

- 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

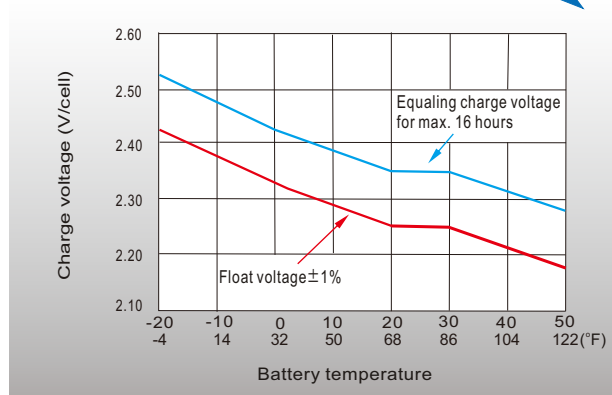
Standards

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

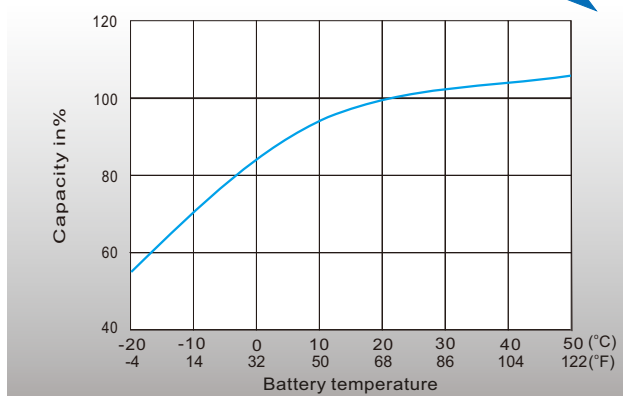
Discharge Characteristics



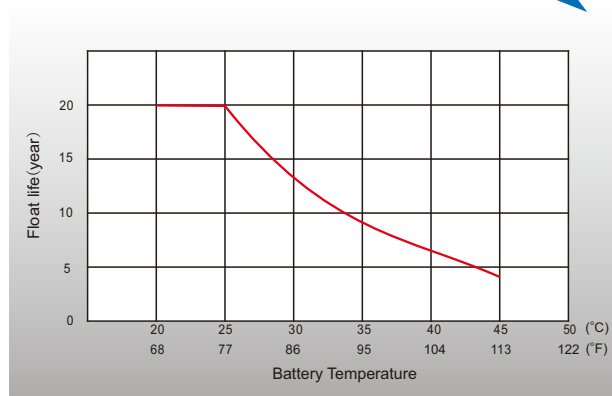
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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