



# OPzS Series-Flooded Battery

## 24 OPzS3000(2V3000Ah)

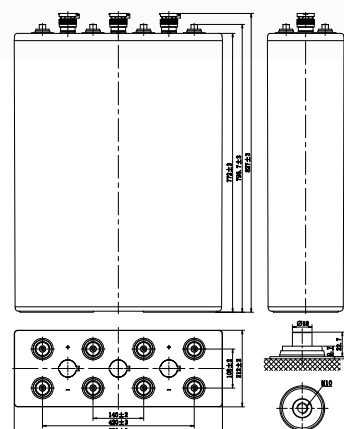


### Specifications

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/cell$	3000.0Ah
Dimension	Length	576±2mm (22.68 inches)
	Width	212±3mm (8.35 inches)
	Container Height	772±3mm (30.39 inches)
	Total Height	827±3mm (32.56 inches)
Approx Weight	Without Electrolyte	164.8kg (362.56lbs)
	With Electrolyte	224.8 kg (494.56lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	3000.0 Ah	(10hr,300.0A,1.80V/cell)
	2664.5 Ah	(5hr,532.9A,1.75V/cell)
	2313.0 Ah	(3hr,771.0A,1.75V/cell)
	1713.0 Ah	(1hr,1713.0A,1.60V/cell)
Max. Discharge Current	24000A (5s)	
Internal Resistance (25°C)	Approx 0.38mΩ	
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	2274.0	1976.0	1713.0	1350.0	1116.0	834.0	670.5	567.0	490.8	388.4	320.8	174.0
1.65V/cell	2136.0	1900.0	1656.0	1316.0	1090.5	820.0	660.8	559.5	484.1	383.6	317.1	172.4
1.70V/cell	2028.0	1792.0	1593.0	1274.0	1065.0	796.0	645.8	547.3	474.9	376.9	311.9	170.0
1.75V/cell	1902.0	1708.0	1512.0	1214.0	1020.0	771.0	626.3	532.9	463.5	370.7	306.7	167.1
1.80V/cell	1692.0	1540.0	1392.0	1138.0	958.5	732.0	599.6	510.9	446.5	360.5	300.0	164.0
1.85V/cell	1350.0	1276.0	1191.0	1012.0	870.0	670.0	554.7	478.8	420.5	342.7	287.2	157.7

### 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	3881.7	3458.0	3041.4	2426.9	2029.4	1527.5	1238.8	1054.8	918.9	730.3	605.8	329.8
1.65V/cell	3725.4	3364.3	2964.6	2377.7	1993.0	1509.4	1226.9	1046.1	911.0	725.0	601.7	328.3
1.70V/cell	3585.5	3206.4	2873.3	2317.0	1954.8	1472.3	1203.1	1027.5	896.7	715.2	593.7	324.9
1.75V/cell	3419.3	3088.7	2753.0	2223.9	1885.9	1435.0	1172.7	1005.0	878.0	705.7	586.5	321.0
1.80V/cell	3083.2	2827.3	2567.0	2108.7	1788.0	1372.8	1129.4	968.1	850.9	690.1	576.9	316.6
1.85V/cell	2501.6	2376.7	2228.6	1900.8	1640.9	1270.0	1055.7	915.1	807.7	661.0	556.7	307.0



# OPzS Series-Flooded Battery

## 24 OPzS3000(2V3000Ah)



### Applications

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

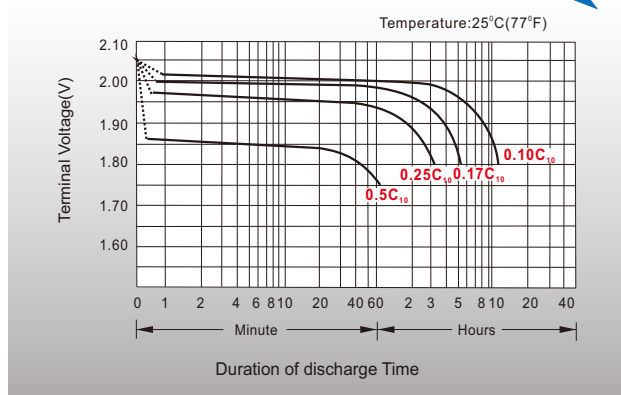
### General Features

- 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

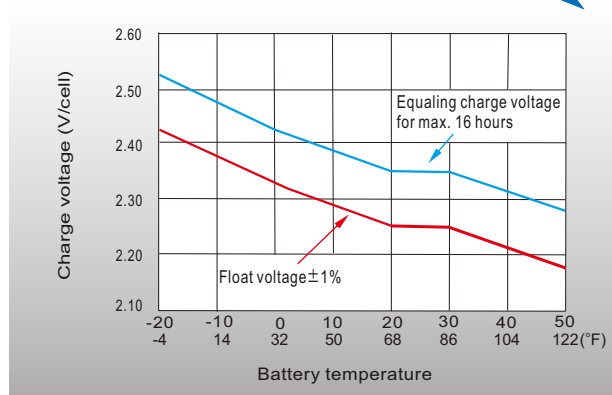
### Standards

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

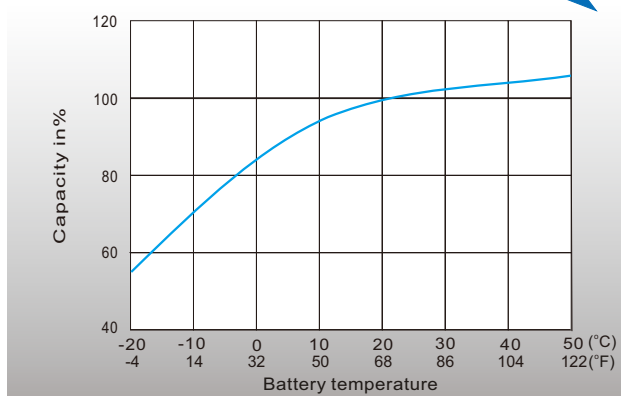
### Discharge Characteristics



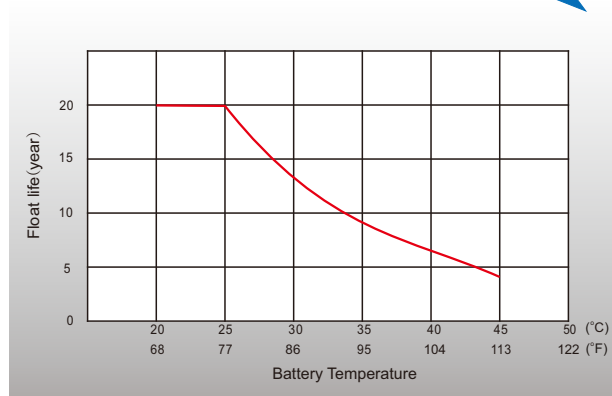
### Charge voltage Vs ambient temperature curve



### Discharge capacity Vs Ambient temperature curve (I10A)



### Float Service Life



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