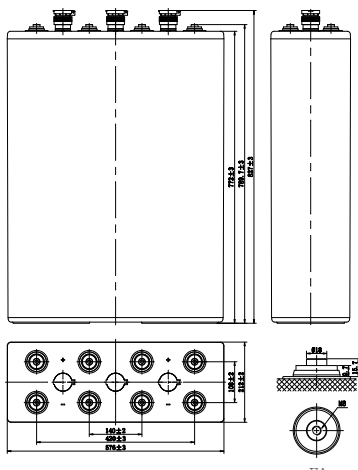
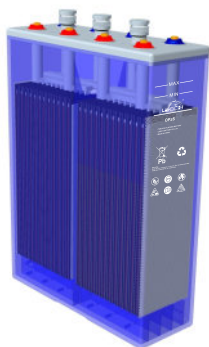


OPzS SERIES-FLOODED BATTERY

24OPzS3000 (2V3000Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	3000Ah
Dimension	Length	576mm (22.7inches)
	Width	212mm (8.35inches)
	Container Height	772mm (30.4inches)
	Total Height	827mm (32.6inches)
Approx Weight	213.5kg (470.7lbs)	
Dry Weight	153.5kg (338.4lbs)	
Terminal	T7-A(M8)	
Container Material	SAN transparent container	
Short-circuit current	15000A	
Internal Resistance (20°C)	Approx 0.26 mΩ (Fully charged)	
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±5°C (77±9°F)	
Max.Charging Current (20°C)	0.15C	
Charge voltage (20°C)	Standby Use	Cycle Use
	2.23-2.25V/cell	2.40-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	20°C (68°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 20°C	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 20°C (68°F)													
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	1012.2	765.6	629.8	537.9	464.4	414.0	332.4	284.2	159.0	134.0	48.7	37.2	31.9
1.80V/cell	1210.9	891.4	710.0	593.6	503.0	444.3	354.9	300.0	165.4	139.4	50.7	38.7	33.2
1.75V/cell	1383.4	999.6	755.4	626.2	522.2	454.2	363.0	306.7	169.6	142.3	51.7	39.5	33.9
1.70V/cell	1497.4	1022.4	780.2	639.2	536.4	467.6	369.3	312.0	172.4	/	/	/	/
1.65V/cell	1548.2	1046.8	803.7	654.0	548.2	474.4	375.9	317.2	175.0	/	/	/	/
1.60V/cell	1593.0	1071.2	817.2	663.6	555.6	481.0	380.7	321.0	176.6	/	/	/	/
Constant Power Discharge (Watts/cell) at 20°C (68°F)													
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	1893.8	1443.9	1193.4	1023.6	887.0	794.8	641.2	551.0	309.2	260.9	95.0	72.7	62.3
1.80V/cell	2232.9	1662.4	1331.2	1117.7	952.6	846.3	678.9	576.9	319.0	269.3	98.0	75.0	64.3
1.75V/cell	2519.1	1848.2	1405.8	1172.2	984.8	860.2	691.1	586.7	325.4	273.4	99.5	76.1	65.3
1.70V/cell	2701.3	1876.1	1442.5	1190.1	1006.8	882.3	700.5	593.4	329.2	/	/	/	/
1.65V/cell	2771.2	1913.5	1478.8	1213.8	1024.5	892.3	710.4	601.7	333.0	/	/	/	/
1.60V/cell	2827.5	1948.5	1496.2	1225.6	1033.4	900.4	715.7	606.0	334.6	/	/	/	/

OPzS SERIES-FLOODED BATTERY

24OPzS3000 (2V3000Ah)



APPLICATIONS

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

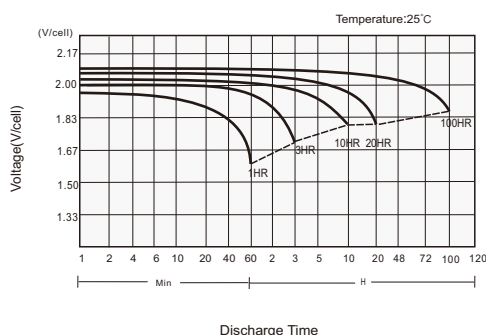
GENERAL FEATURES

- 20 years design life (20°C)
- Positive electrodes-die-cast tubular plates with low antimony lead alloy for longer life
- Transparent SAN Containers to allow electrolyte level and cell condition to be monitored visually
- Excellent standby and cycling behaviour - long life

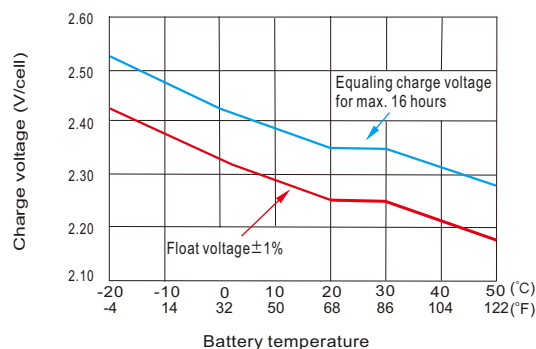
STANDARDS

- Acc.to IEC60896, DIN 40736 standards
- Manufactured in Leoch®IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

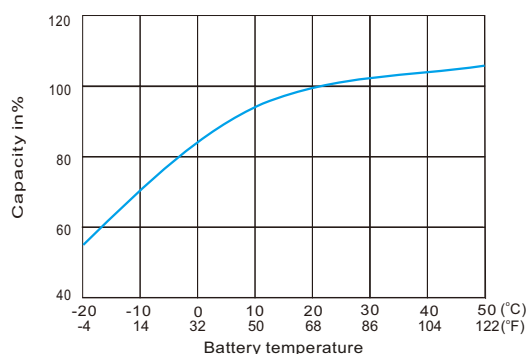
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics

