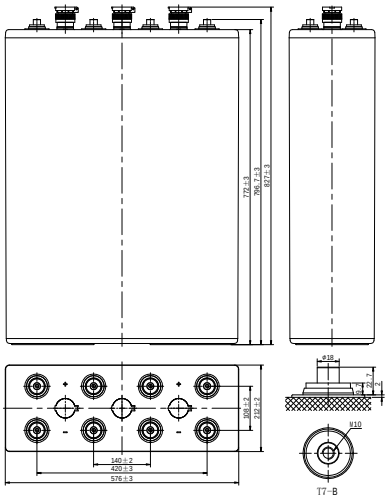
OPzS SERIES-FLOODED BATTERY

24OPzS3000 (2V3000Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	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		224.8kg (495.6lbs)
Dry Weight		164.8kg (363.3lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Short-circuit current		15000A
Internal Resistance (20℃)		Approx 0.38 mΩ (Fully charged)
Operating Temp. Range	Discharge	-15~55℃ (5~131°F)
	Charge	0~45℃ (32~113°F)
	Storage	-15~45℃ (5~113°F)
Nominal Operating Temp. Range		25±5℃ (77±9°F)
Max.Charging Current (20℃)		0.15C
Charge voltage (20℃)	Standby Use	Cycle Use
	2.23-2.25V/cell	2.40-2.45V/cell
Temp. Coeffcient	-3mV/cell/℃	-5mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	20℃ (68°F)	100%
	0℃ (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	1191.0	870.0	670.0	554.7	478.8	420.5	342.7	287.2	157.7	132.3	47.5	35.6	30.5
1.80V/cell	1392.0	958.5	732.0	599.6	510.9	446.5	360.5	300.0	164.0	137.5	49.4	37.0	31.7
1.75V/cell	1512.0	1020.0	771.0	626.3	532.9	463.5	370.7	306.7	167.1	140.1	50.3	37.7	32.3
1.70V/cell	1593.0	1065.0	796.0	645.8	547.3	474.9	376.9	311.9	170.0	/	/	/	/
1.65V/cell	1656.0	1090.5	820.0	660.8	559.5	484.1	383.6	317.1	172.4	/	/	/	/
1.60V/cell	1713.0	1116.0	834.0	670.5	567.0	490.8	388.4	320.8	174.0	/	/	/	/
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	2228.6	1640.9	1270.0	1055.7	915.1	807.7	661.0	556.7	307.0	257.3	91.7	68.5	58.6
1.80V/cell	2567.0	1788.0	1372.8	1129.4	968.1	850.9	690.1	576.9	316.6	265.4	94.6	70.7	60.4
1.75V/cell	2753.0	1885.9	1435.0	1172.7	1005.0	878.0	705.7	586.5	321.0	269.1	95.9	71.7	61.3
1.70V/cell	2873.3	1954.8	1472.3	1203.1	1027.5	896.7	715.2	593.7	324.9	/	/	/	/
1.65V/cell	2964.6	1993.0	1509.4	1226.9	1046.1	911.0	725.0	601.7	328.3	/	/	/	/
1.60V/cell	3041.4	2029.4	1527.5	1238.8	1054.8	918.9	730.3	605.8	329.8	/	/	/	/

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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

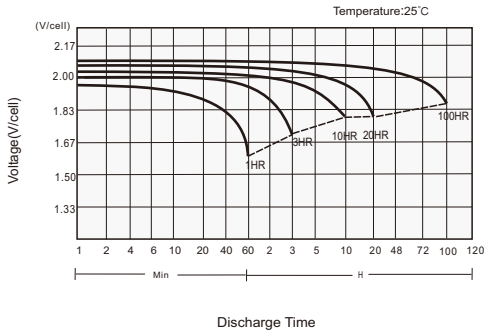
GENERAL FEATURES

- 20 years design life (20℃)
- 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

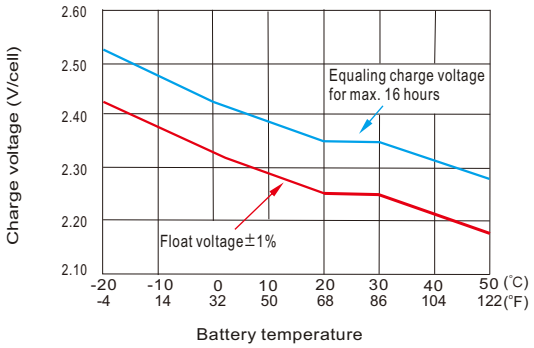
STANDARDS

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

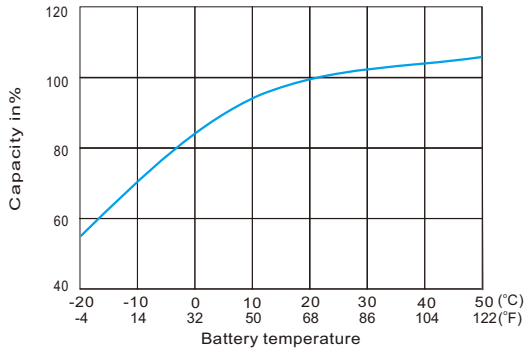
Discharge Characteristics



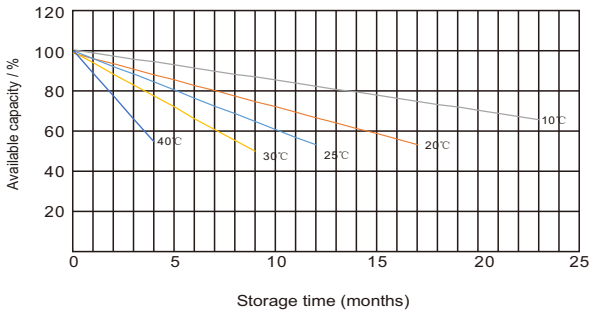
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I_{10}A)



Self Discharge Characteristics



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