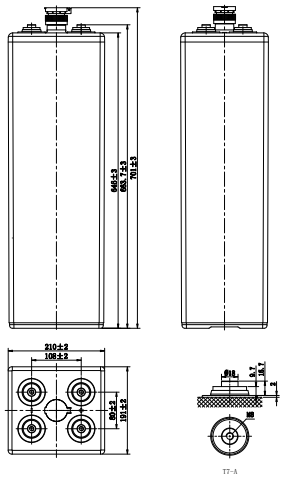
OPzS SERIES-FLOODED BATTERY

8OPzS800 (2V800Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	C_{10},1.80V/cell	800Ah
Dimension	Length	191mm(7.52inches)
	Width	210mm(8.27inches)
	Container Height	646mm(25.4inches)
	Total Height	701mm(27.6inches)
Approx Weight		57.9kg(127.6lbs)
Dry Weight		41.9kg(92.4lbs)
Terminal		T7-A(M8)
Container Material		SAN transparent container
Short-circuit current		4800A
Internal Resistance (20℃)		Approx 0.51 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	269.9	204.1	167.9	143.4	123.8	110.4	88.6	75.8	42.4	35.7	13.0	9.93	8.51
1.80V/cell	322.9	237.7	189.3	158.3	134.1	118.5	94.6	80.0	44.1	37.2	13.5	10.3	8.85
1.75V/cell	368.9	266.5	201.4	167.0	139.2	121.1	96.8	81.8	45.2	38.0	13.8	10.5	9.03
1.70V/cell	399.3	272.6	208.0	170.4	143.0	124.7	98.4	83.2	45.9	/	/	/	/
1.65V/cell	412.9	279.1	214.3	174.4	146.2	126.5	100.2	84.6	46.6	/	/	/	/
1.60V/cell	424.8	285.7	217.9	177.0	148.1	128.2	101.5	85.6	47.1	/	/	/	/
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	504.9	384.9	318.1	272.8	236.4	211.9	170.9	146.9	82.4	69.6	25.3	19.4	16.6
1.80V/cell	595.4	443.3	354.9	298.0	253.9	225.7	180.9	153.8	85.0	71.8	26.1	20.0	17.1
1.75V/cell	671.7	492.7	374.8	312.6	262.5	229.3	184.3	156.4	86.7	72.9	26.5	20.3	17.4
1.70V/cell	720.3	500.2	384.5	317.2	268.4	235.3	186.6	158.2	87.6	/	/	/	/
1.65V/cell	739.0	510.1	394.3	323.6	273.2	237.9	189.3	160.4	88.6	/	/	/	/
1.60V/cell	754.0	519.6	398.9	326.9	275.4	240.0	190.8	161.6	89.2	/	/	/	/

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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

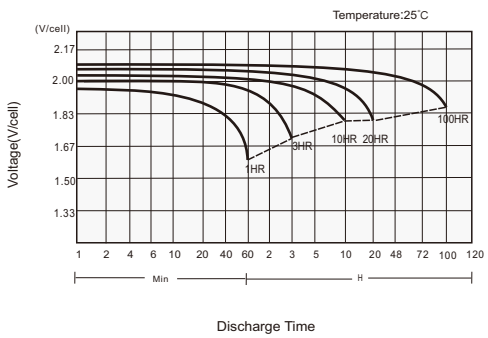
GENERAL FEATURES

- 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

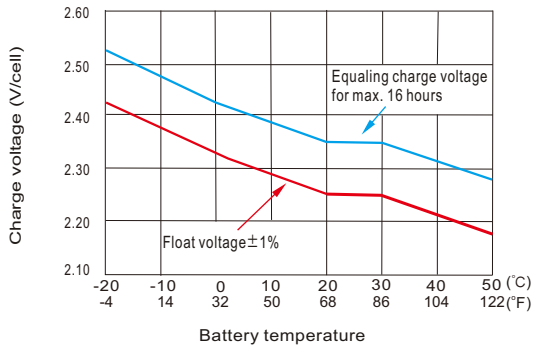
STANDARDS

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

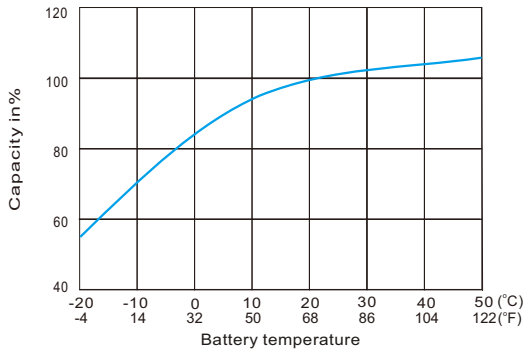
Discharge Characteristics



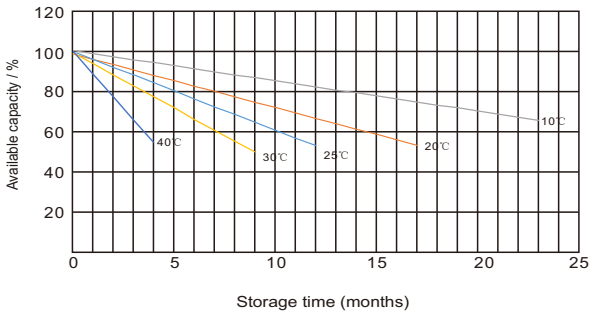
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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