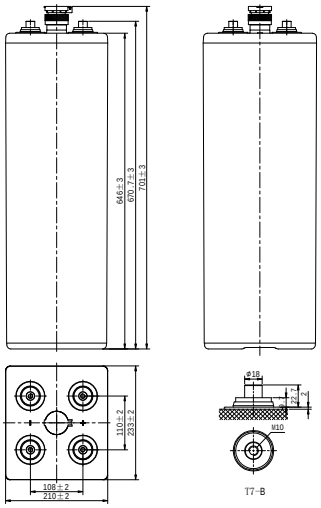
OPzS SERIES-FLOODED BATTERY

10OPzS1000 (2V1000Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	C_{10},1.80V/cell	1000Ah
Dimension	Length	233mm (9.17inches)
	Width	210mm (8.27inches)
	Container Height	646mm (25.4inches)
	Total Height	701mm (27.6inches)
Approx Weight		77.4kg (170.6lbs)
Dry Weight		57.4kg (126.5lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Short-circuit current		6000A
Internal Resistance (20℃)		Approx 0.45 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	397.0	290.0	223.3	184.9	159.6	140.2	114.2	95.7	52.6	44.1	15.8	11.9	10.2
1.80V/cell	464.0	319.5	244.0	199.9	170.3	148.8	120.2	100.0	54.7	45.9	16.5	12.3	10.6
1.75V/cell	504.0	340.0	257.0	208.8	177.6	154.5	123.6	102.2	55.7	46.7	16.8	12.6	10.8
1.70V/cell	531.0	355.0	265.3	215.3	182.4	158.3	125.6	104.0	56.7	/	/	/	/
1.65V/cell	552.0	363.5	273.3	220.3	186.5	161.4	127.9	105.7	57.5	/	/	/	/
1.60V/cell	571.0	372.0	278.0	223.5	189.0	163.6	129.5	106.9	58.0	/	/	/	/

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	742.9	547.0	423.3	351.9	305.0	269.2	220.3	185.6	102.3	85.8	30.6	22.8	19.5
1.80V/cell	855.7	596.0	457.6	376.5	322.7	283.6	230.0	192.3	105.5	88.4	31.5	23.6	20.1
1.75V/cell	917.7	628.6	478.3	390.9	335.0	292.7	235.2	195.5	107.0	89.7	32.0	23.9	20.4
1.70V/cell	957.8	651.6	490.8	401.0	342.5	298.9	238.4	197.9	108.3	/	/	/	/
1.65V/cell	988.2	664.3	503.1	409.0	348.7	303.7	241.7	200.6	109.4	/	/	/	/
1.60V/cell	1013.8	676.5	509.2	412.9	351.6	306.3	243.4	201.9	109.9	/	/	/	/

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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

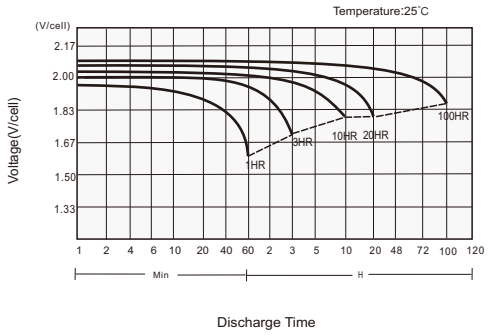
GENERAL FEATURES

- 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

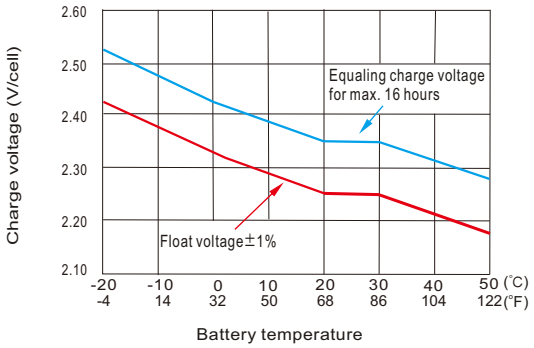
STANDARDS

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

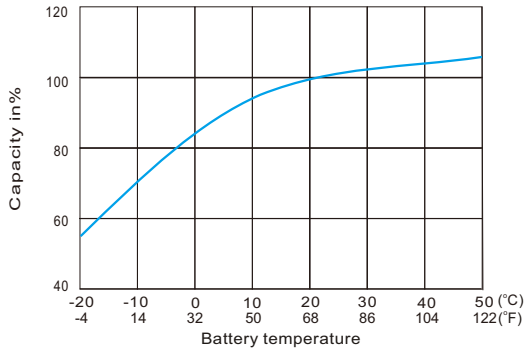
Discharge Characteristics



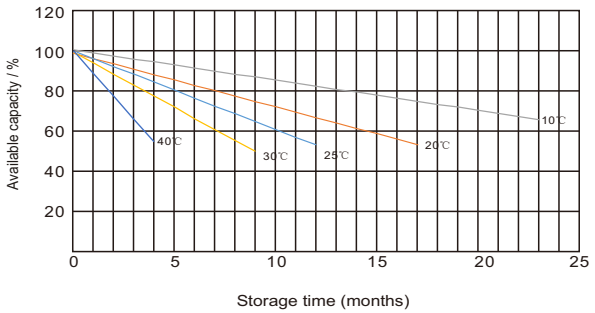
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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