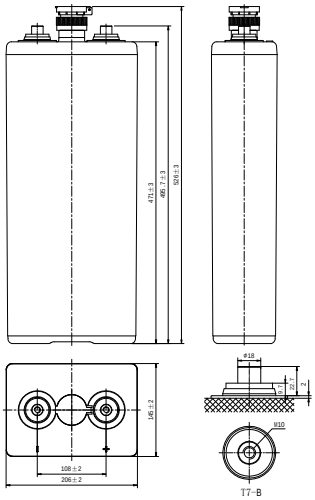
OPzS SERIES-FLOODED BATTERY

6OPzS420 (2V420Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	C_{10},1.80V/cell	420Ah
Dimension	Length	145mm (5.71inches)
	Width	206mm (8.11inches)
	Container Height	471mm (18.5inches)
	Total Height	526mm (20.7inches)
Approx Weight		32.7kg (72.1lbs)
Dry Weight		24.5kg (54.0lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Short-circuit current		3150A
Internal Resistance (20℃)		Approx 0.88 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	166.7	121.8	93.8	77.7	67.0	58.9	48.0	40.2	22.1	18.5	6.65	4.99	4.27
1.80V/cell	194.9	134.2	102.5	83.9	71.5	62.5	50.5	42.0	23.0	19.3	6.92	5.19	4.45
1.75V/cell	211.7	142.8	107.9	87.7	74.6	64.9	51.9	42.9	23.4	19.6	7.04	5.28	4.52
1.70V/cell	223.0	149.1	111.4	90.4	76.6	66.5	52.8	43.7	23.8	/	/	/	/
1.65V/cell	231.8	152.7	114.8	92.5	78.3	67.8	53.7	44.4	24.1	/	/	/	/
1.60V/cell	239.8	156.2	116.8	93.9	79.4	68.7	54.4	44.9	24.4	/	/	/	/

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	312.0	229.7	177.8	147.8	128.1	113.1	92.5	77.9	43.0	36.0	12.8	9.59	8.20
1.80V/cell	359.4	250.3	192.2	158.1	135.5	119.1	96.6	80.8	44.3	37.1	13.2	9.88	8.44
1.75V/cell	385.4	264.0	200.9	164.2	140.7	122.9	98.8	82.1	44.9	37.6	13.4	10.0	8.56
1.70V/cell	402.3	273.7	206.1	168.4	143.8	125.5	100.1	83.1	45.5	/	/	/	/
1.65V/cell	415.0	279.0	211.3	171.8	146.4	127.5	101.5	84.2	46.0	/	/	/	/
1.60V/cell	425.8	284.1	213.8	173.4	147.7	128.7	102.2	84.8	46.2	/	/	/	/

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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

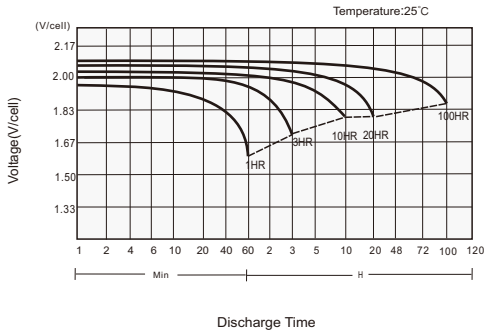
GENERAL FEATURES

- 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

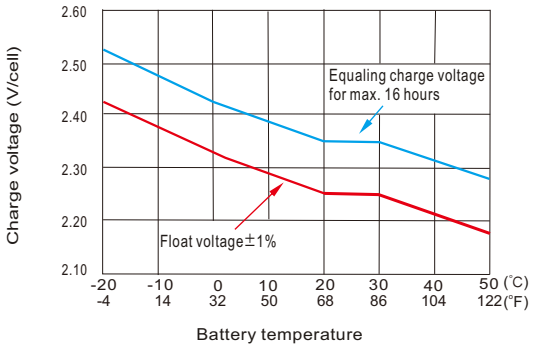
STANDARDS

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

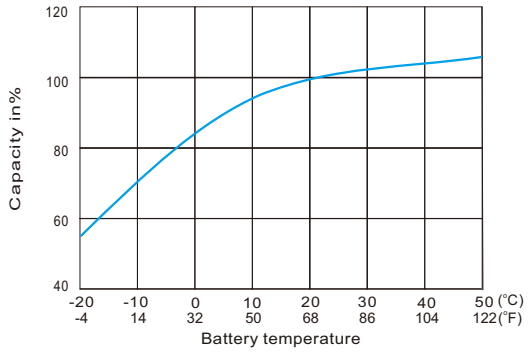
Discharge Characteristics



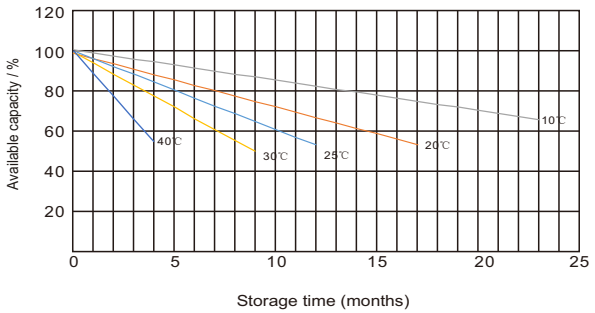
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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