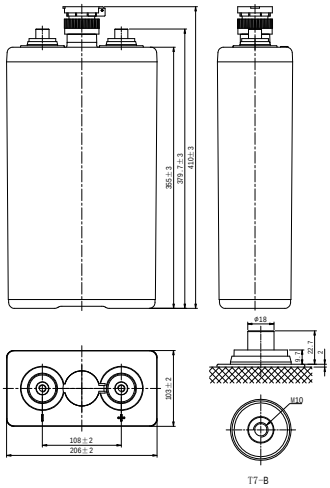
OPzS SERIES-FLOODED BATTERY

4OPzS200 (2V200Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	C_{10},1.80V/cell	200Ah
Dimension	Length	103mm (4.06inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight		17.4kg (38.4lbs)
Dry Weight		12.9kg (28.4lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Short-circuit current		1600A
Internal Resistance (20℃)		Approx 1.2 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	79.4	58.0	44.7	37.0	31.9	28.0	22.8	19.1	10.5	8.81	3.16	2.37	2.03
1.80V/cell	92.8	63.9	48.8	40.0	34.1	29.8	24.0	20.0	10.9	9.14	3.28	2.46	2.10
1.75V/cell	100.8	68.0	51.4	41.8	35.5	30.9	24.7	20.4	11.1	9.31	3.34	2.50	2.14
1.70V/cell	106.2	71.0	53.1	43.1	36.5	31.7	25.1	20.8	11.3	/	/	/	/
1.65V/cell	110.4	72.7	54.7	44.1	37.3	32.3	25.6	21.1	11.5	/	/	/	/
1.60V/cell	114.2	74.4	55.6	44.7	37.8	32.7	25.9	21.4	11.6	/	/	/	/
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	148.6	109.4	84.7	70.4	61.0	53.8	44.1	37.1	20.5	17.2	6.12	4.57	3.91
1.80V/cell	171.1	119.2	91.5	75.3	64.5	56.7	46.0	38.5	21.1	17.7	6.30	4.70	4.02
1.75V/cell	183.5	125.7	95.7	78.2	67.0	58.5	47.0	39.1	21.4	17.9	6.39	4.77	4.08
1.70V/cell	191.6	130.3	98.2	80.2	68.5	59.8	47.7	39.6	21.7	/	/	/	/
1.65V/cell	197.6	132.9	100.6	81.8	69.7	60.7	48.3	40.1	21.9	/	/	/	/
1.60V/cell	202.8	135.3	101.8	82.6	70.3	61.3	48.7	40.4	22.0	/	/	/	/

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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

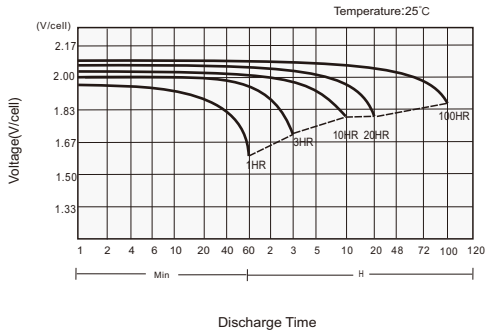
GENERAL FEATURES

- 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

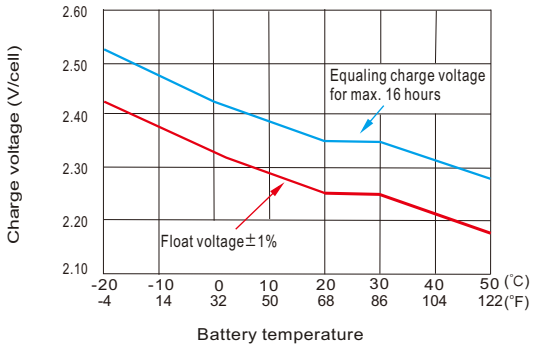
STANDARDS

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

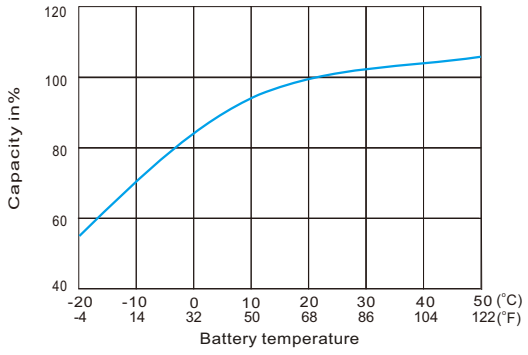
Discharge Characteristics



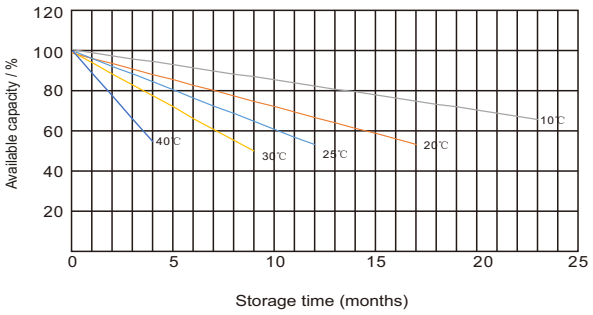
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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