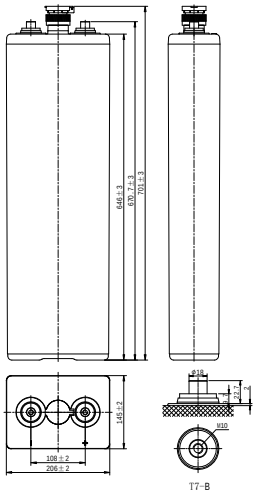
OPzS SERIES-FLOODED BATTERY

6OPzS600 (2V600Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20℃)	C_{10},1.80V/cell	600Ah
Dimension	Length	145mm (5.71inches)
	Width	206mm (8.11inches)
	Container Height	646mm (25.4inches)
	Total Height	701mm (27.6inches)
Approx Weight		45.4kg (100.1lbs)
Dry Weight		33.4kg (73.6lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Short-circuit current		3600A
Internal Resistance (20℃)		Approx 0.7 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	238.2	174.0	134.0	110.9	95.8	84.1	68.5	57.4	31.5	26.4	9.48	7.11	6.10
1.80V/cell	278.4	191.7	146.4	119.9	102.2	89.3	72.1	60.0	32.8	27.5	9.88	7.41	6.35
1.75V/cell	302.4	204.0	154.2	125.3	106.6	92.7	74.1	61.3	33.4	28.0	10.1	7.54	6.47
1.70V/cell	318.6	213.0	159.2	129.2	109.5	95.0	75.4	62.4	34.0	/	/	/	/
1.65V/cell	331.2	218.1	164.0	132.2	111.9	96.8	76.7	63.4	34.5	/	/	/	/
1.60V/cell	342.6	223.2	166.8	134.1	113.4	98.2	77.7	64.2	34.8	/	/	/	/

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	445.7	328.2	254.0	211.1	183.0	161.5	132.2	111.3	61.4	51.5	18.3	13.7	11.7
1.80V/cell	513.4	357.6	274.6	225.9	193.6	170.2	138.0	115.4	63.3	53.1	18.9	14.1	12.1
1.75V/cell	550.6	377.2	287.0	234.5	201.0	175.6	141.1	117.3	64.2	53.8	19.2	14.3	12.3
1.70V/cell	574.7	391.0	294.5	240.6	205.5	179.3	143.0	118.7	65.0	/	/	/	/
1.65V/cell	592.9	398.6	301.9	245.4	209.2	182.2	145.0	120.3	65.7	/	/	/	/
1.60V/cell	608.3	405.9	305.5	247.8	211.0	183.8	146.1	121.2	66.0	/	/	/	/

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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

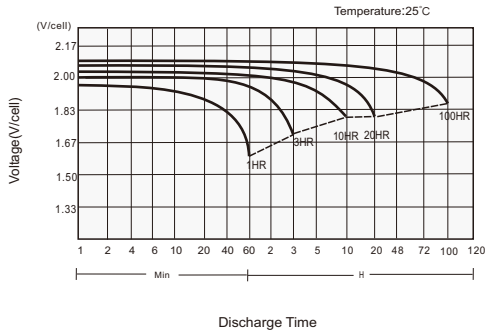
GENERAL FEATURES

- 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

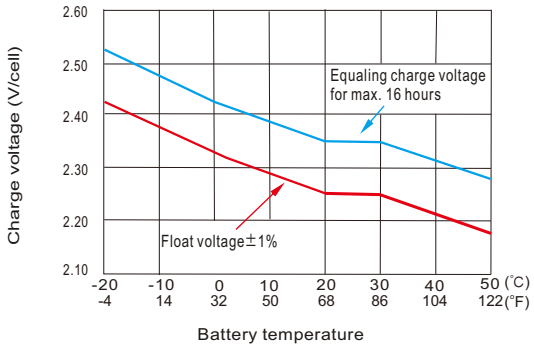
STANDARDS

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

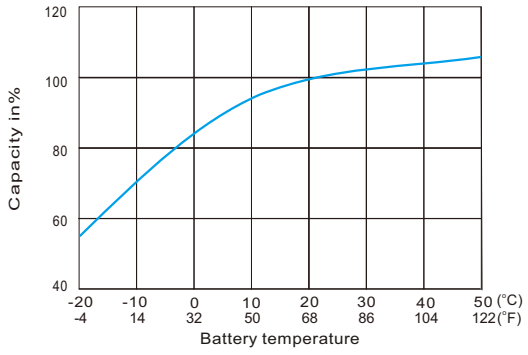
Discharge Characteristics



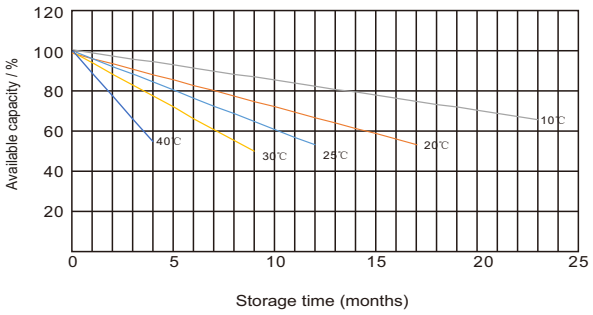
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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