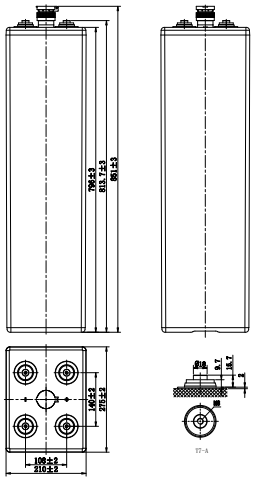
OPzS SERIES-FLOODED BATTERY

12OPzS1500 (2V1500Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (20˚C)	C_{10},1.80V/cell	1500Ah
Dimension	Length	275mm(10.8inches)
	Width	210mm(8.27inches)
	Container Height	796mm(31.3inches)
	Total Height	851mm(33.5inches)
Approx Weight		104.8kg(231.0lbs)
Dry Weight		74.8kg(164.9lbs)
Terminal		T7-A(M8)
Container Material		SAN transparent container
Short-circuit current		7500A
Internal Resistance (20˚C)		Approx 0.45 mΩ (Fully charged)
Operating Temp. Range	Discharge	-15~55˚C (5~131°F)
	Charge	0~45˚C (32~113°F)
	Storage	-15~45˚C (5~113°F)
Nominal Operating Temp. Range		25±5˚C (77±9°F)
Max.Charging Current (20˚C)		0.15C
Charge voltage (20˚C)	Standby Use	Cycle Use
	2.23-2.25V/cell	2.40-2.45V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	20˚C (68°F)	100%
	0˚C (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	506.1	382.8	314.9	269.0	232.2	207.0	166.2	142.1	79.5	67.0	24.4	18.6	16.0
1.80V/cell	605.5	445.7	355.0	296.8	251.5	222.1	177.4	150.0	82.7	69.7	25.4	19.4	16.6
1.75V/cell	691.7	499.8	377.7	313.1	261.1	227.1	181.5	153.3	84.8	71.2	25.9	19.8	16.9
1.70V/cell	748.7	511.2	390.1	319.6	268.2	233.8	184.6	156.0	86.2	/	/	/	/
1.65V/cell	774.1	523.4	401.8	327.0	274.1	237.2	187.9	158.6	87.5	/	/	/	/
1.60V/cell	796.5	535.6	408.6	331.8	277.8	240.5	190.3	160.5	88.3	/	/	/	/
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	946.9	721.9	596.7	511.9	443.5	397.4	320.6	275.5	154.6	130.5	47.5	36.3	31.2
1.80V/cell	1116.5	831.2	665.6	558.8	476.3	423.1	339.3	288.4	159.5	134.6	49.0	37.5	32.1
1.75V/cell	1259.5	924.1	702.9	586.1	492.4	430.1	345.5	293.3	162.7	136.7	49.7	38.0	32.6
1.70V/cell	1350.6	938.0	721.2	595.0	503.4	441.1	350.1	296.7	164.6	/	/	/	/
1.65V/cell	1385.6	956.7	739.3	606.9	512.2	446.1	355.1	300.8	166.5	/	/	/	/
1.60V/cell	1413.7	974.2	748.1	612.8	516.7	450.2	357.7	303.0	167.3	/	/	/	/

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LEOCH BATTERY

APPLICATIONS

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

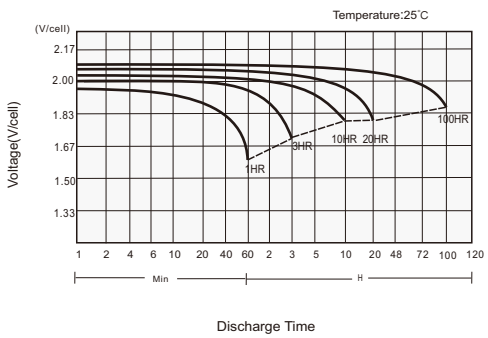
GENERAL FEATURES

- 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

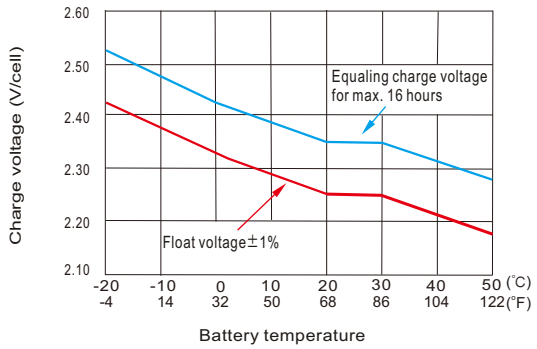
STANDARDS

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

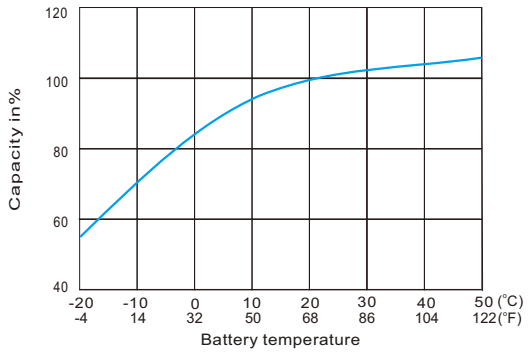
Discharge Characteristics



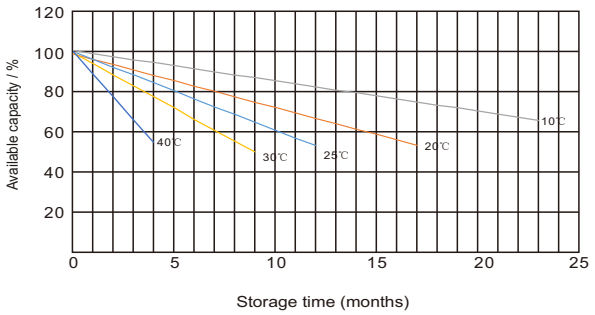
Charge Voltage vs Ambient Temperature Curve



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



Self Discharge Characteristics



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