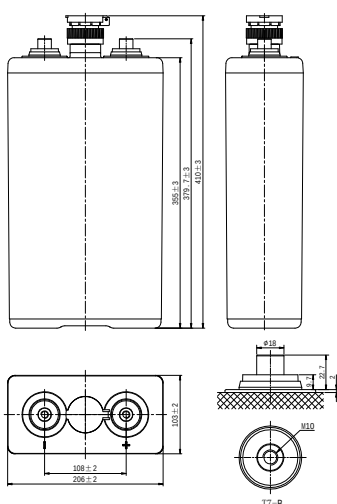


OPzS SERIES-FLOODED BATTERY

2OPzS100 (2V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	103mm (4.06inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight	13.2kg (29.1lbs)	
Dry Weight	8.1kg (17.9lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	800A	
Internal Resistance (20°C)	Approx 1.59 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. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	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	39.7	29.0	22.3	18.5	16.0	14.0	11.4	9.57	5.26	4.41	1.58	1.19	1.02
1.80V/cell	46.4	32.0	24.4	20.0	17.0	14.9	12.0	10.0	5.47	4.59	1.65	1.23	1.06
1.75V/cell	50.4	34.0	25.7	20.9	17.8	15.5	12.4	10.2	5.57	4.67	1.68	1.26	1.08
1.70V/cell	53.1	35.5	26.5	21.5	18.2	15.8	12.6	10.4	5.67	/	/	/	/
1.65V/cell	55.2	36.4	27.3	22.0	18.6	16.1	12.8	10.6	5.75	/	/	/	/
1.60V/cell	57.1	37.2	27.8	22.4	18.9	16.4	12.9	10.7	5.80	/	/	/	/
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	74.3	54.7	42.3	35.2	30.5	26.9	22.0	18.6	10.2	8.55	3.05	2.28	1.95
1.80V/cell	85.6	59.6	45.8	37.6	32.3	28.4	23.0	19.2	10.6	8.89	3.17	2.37	2.03
1.75V/cell	91.8	62.9	47.8	39.1	33.5	29.3	23.5	19.6	10.7	8.97	3.20	2.40	2.05
1.70V/cell	95.8	65.2	49.1	40.1	34.2	29.9	23.8	19.8	10.8	/	/	/	/
1.65V/cell	98.8	66.4	50.3	40.9	34.9	30.4	24.2	20.1	10.9	/	/	/	/
1.60V/cell	101.4	67.6	50.9	41.3	35.2	30.6	24.3	20.2	11.0	/	/	/	/

OPzS SERIES-FLOODED BATTERY

2OPzS100 (2V100Ah)



APPLICATIONS

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

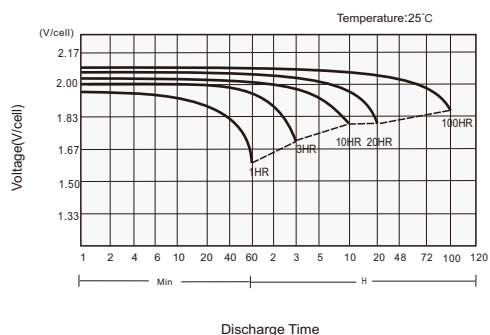
GENERAL FEATURES

- 20 years design life (20°C)
- 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

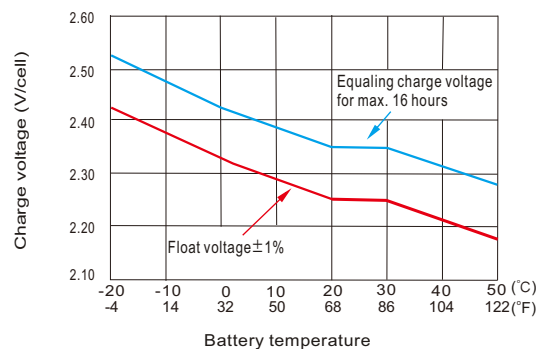
STANDARDS

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

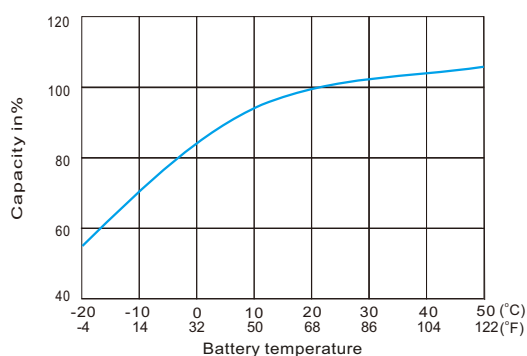
Discharge Characteristics



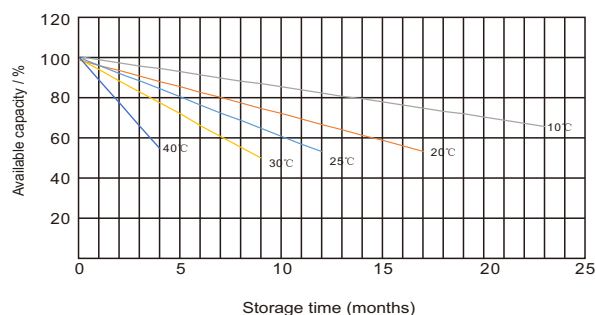
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀A)



Self Discharge Characteristics



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