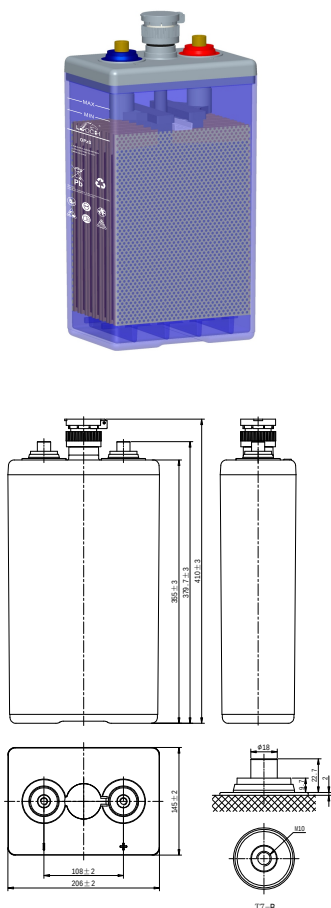


OPzS SERIES-FLOODED BATTERY

6OPzS300 (2V300Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	300Ah
Dimension	Length	145mm (5.71inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight	23.8kg (52.5lbs)	
Dry Weight	17.8kg (39.2lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	2400A	
Internal Resistance (20°C)	Approx 1 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	119.1	87.0	67.0	55.5	47.9	42.1	34.3	28.7	15.8	13.3	4.75	3.56	3.05
1.80V/cell	139.2	95.9	73.2	60.0	51.1	44.7	36.1	30.0	16.4	13.8	4.93	3.69	3.16
1.75V/cell	151.2	102.0	77.1	62.6	53.3	46.4	37.1	30.7	16.7	14.0	5.02	3.76	3.22
1.70V/cell	159.3	106.5	79.6	64.6	54.7	47.5	37.7	31.2	17.0	/	/	/	/
1.65V/cell	165.6	109.1	82.0	66.1	55.9	48.4	38.4	31.7	17.2	/	/	/	/
1.60V/cell	171.3	111.6	83.4	67.1	56.7	49.1	38.8	32.1	17.4	/	/	/	/
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	222.9	164.1	127.0	105.6	91.5	80.8	66.1	55.7	30.7	25.7	9.17	6.85	5.86
1.80V/cell	256.7	178.8	137.3	112.9	96.8	85.1	69.0	57.7	31.7	26.6	9.47	7.08	6.05
1.75V/cell	275.3	188.6	143.5	117.3	100.5	87.8	70.6	58.7	32.1	26.9	9.59	7.17	6.13
1.70V/cell	287.3	195.5	147.2	120.3	102.7	89.7	71.5	59.4	32.5	/	/	/	/
1.65V/cell	296.5	199.3	150.9	122.7	104.6	91.1	72.5	60.2	32.8	/	/	/	/
1.60V/cell	304.1	202.9	152.7	123.9	105.5	91.9	73.0	60.6	33.0	/	/	/	/

OPzS SERIES-FLOODED BATTERY

6OPzS300 (2V300Ah)



APPLICATIONS

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

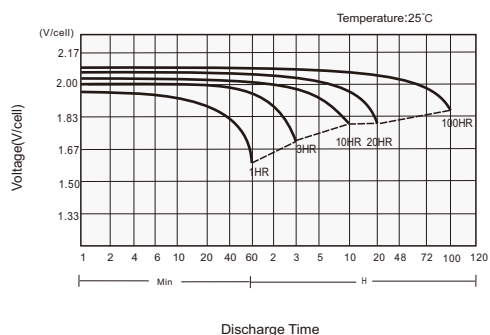
GENERAL FEATURES

- 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

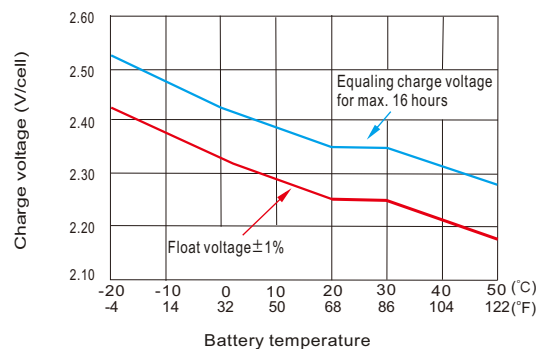
STANDARDS

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

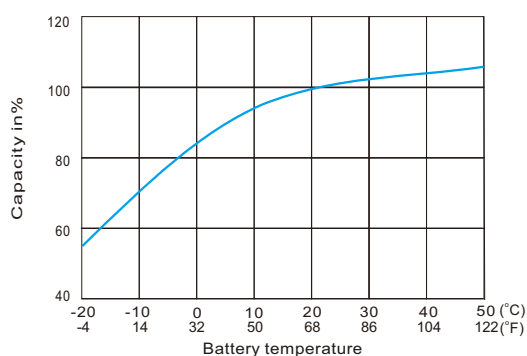
Discharge Characteristics



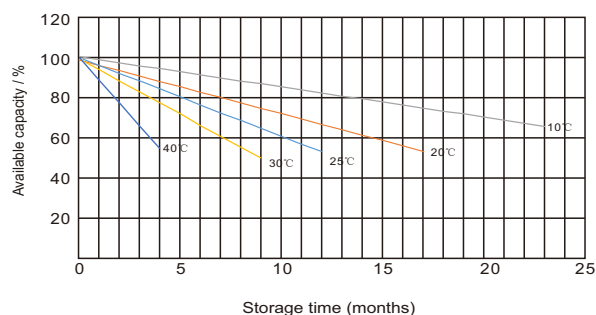
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀A)



Self Discharge Characteristics



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