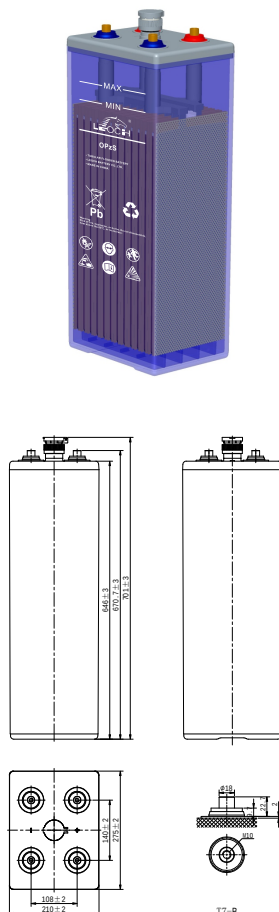


OPzS SERIES-FLOODED BATTERY

12OPzS1200 (2V1200Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	1200Ah
Dimension	Length	275mm (10.8inches)
	Width	210mm (8.27inches)
	Container Height	646mm (25.4inches)
	Total Height	701mm (27.6inches)
Approx Weight	91.7kg (202.2lbs)	
Dry Weight	67.7kg (149.3lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	7200A	
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. 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	476.4	348.0	268.0	221.9	191.5	168.2	137.1	114.9	63.1	52.9	19.0	14.2	12.2
1.80V/cell	556.8	383.4	292.8	239.8	204.4	178.6	144.2	120.0	65.6	55.0	19.7	14.8	12.7
1.75V/cell	604.8	408.0	308.4	250.5	213.2	185.4	148.3	122.7	66.8	56.0	20.1	15.1	12.9
1.70V/cell	637.2	426.0	318.4	258.3	218.9	190.0	150.8	124.7	68.0	/	/	/	/
1.65V/cell	662.4	436.2	328.0	264.3	223.8	193.6	153.5	126.8	68.9	/	/	/	/
1.60V/cell	685.2	446.4	333.6	268.2	226.8	196.3	155.4	128.3	69.6	/	/	/	/
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	891.5	656.4	508.0	422.3	366.1	323.1	264.4	222.7	122.8	102.9	36.7	27.4	23.4
1.80V/cell	1026.8	715.2	549.1	451.8	387.2	340.4	276.0	230.8	126.6	106.1	37.8	28.3	24.2
1.75V/cell	1101.2	754.4	574.0	469.1	402.0	351.2	282.3	234.6	128.4	107.6	38.4	28.7	24.5
1.70V/cell	1149.3	781.9	588.9	481.2	411.0	358.7	286.1	237.5	130.0	/	/	/	/
1.65V/cell	1185.8	797.2	603.7	490.8	418.4	364.4	290.0	240.7	131.3	/	/	/	/
1.60V/cell	1216.6	811.8	611.0	495.5	421.9	367.6	292.1	242.3	131.9	/	/	/	/

OPzS SERIES-FLOODED BATTERY

12OPzS1200 (2V1200Ah)



APPLICATIONS

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

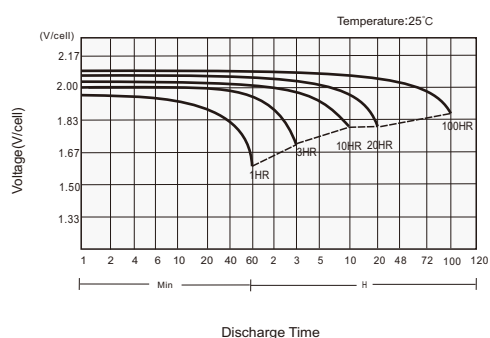
GENERAL FEATURES

- 20 years design life (20°C)
- Positive electrodes-die-cast tubular plates with low antimony lead alloy for longer life
- Stransparent SAN Containers to allow electrolyte level and cell condition to be monitored visually
- Excellent standby and cycling behaviour - long life

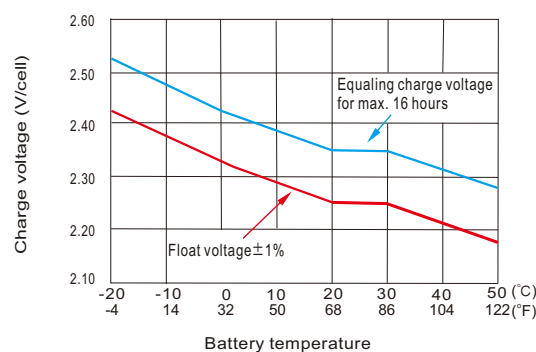
STANDARDS

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

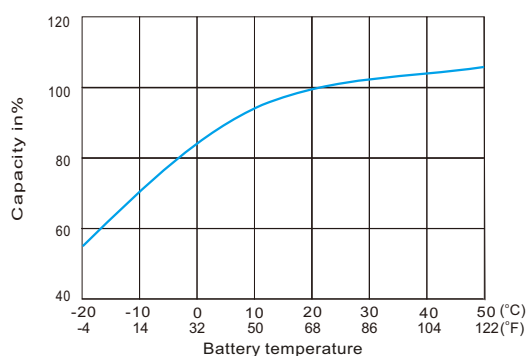
Discharge Characteristics



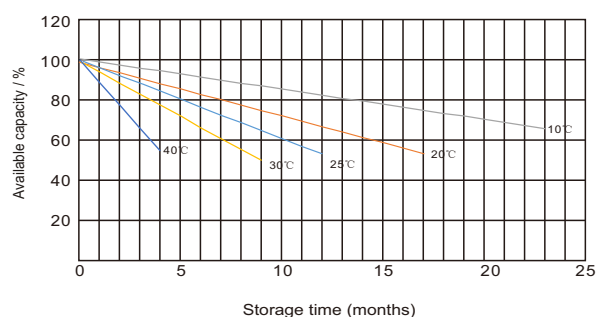
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀A)



Self Discharge Characteristics



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