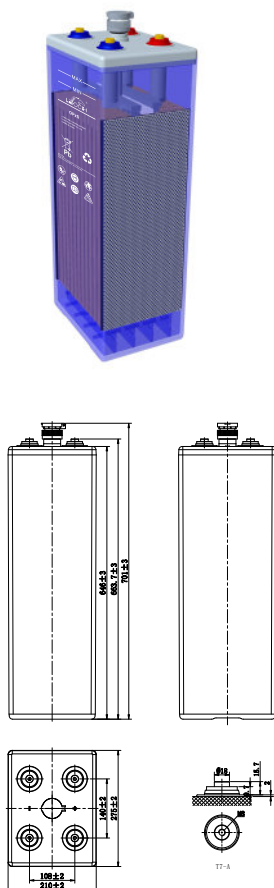


OPzS SERIES-FLOODED BATTERY

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	85.8kg(189.2lbs)	
Dry Weight	60kg(132.3lbs)	
Terminal	T7-A(M8)	
Container Material	SAN transparent container	
Short-circuit current	7200A	
Internal Resistance (20°C)	Approx 0.47 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	404.9	306.2	251.9	215.1	185.8	165.6	132.9	113.7	63.6	53.6	19.5	14.9	12.8
1.80V/cell	484.4	356.5	284.0	237.4	201.2	177.7	141.9	120.0	66.2	55.8	20.3	15.5	13.3
1.75V/cell	553.3	399.8	302.2	250.5	208.8	181.6	145.2	122.7	67.9	56.9	20.7	15.8	13.6
1.70V/cell	598.9	408.9	312.0	255.7	214.6	187.0	147.7	124.8	68.9	/	/	/	/
1.65V/cell	619.3	418.7	321.4	261.6	219.3	189.7	150.3	126.9	70.0	/	/	/	/
1.60V/cell	637.2	428.5	326.9	265.5	222.2	192.4	152.2	128.4	70.6	/	/	/	/
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	757.5	577.4	477.3	409.3	354.8	317.9	256.3	220.4	123.7	104.4	38.0	29.1	24.9
1.80V/cell	893.2	664.8	532.5	447.0	381.0	338.5	271.4	230.7	127.7	107.7	39.2	30.0	25.7
1.75V/cell	1007.5	739.2	562.3	468.9	393.7	343.9	276.4	234.6	130.3	109.4	39.8	30.4	26.1
1.70V/cell	1080.4	750.3	576.8	476.1	402.8	352.8	280.1	237.3	131.6	/	/	/	/
1.65V/cell	1108.5	765.3	591.3	485.5	409.8	356.8	284.0	240.7	133.2	/	/	/	/
1.60V/cell	1131.0	779.4	598.5	490.3	413.2	360.1	286.1	242.4	133.7	/	/	/	/

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

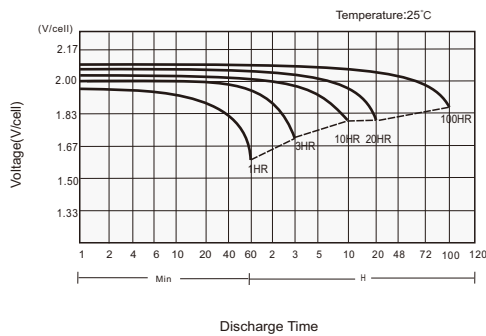
GENERAL FEATURES

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

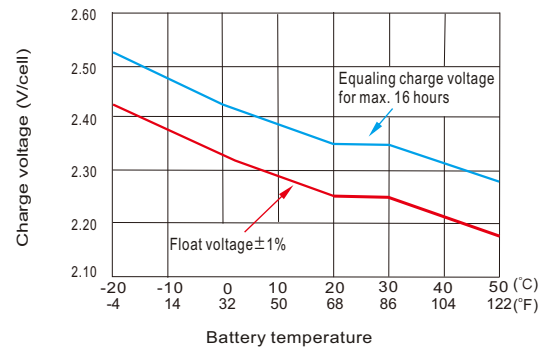
STANDARDS

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

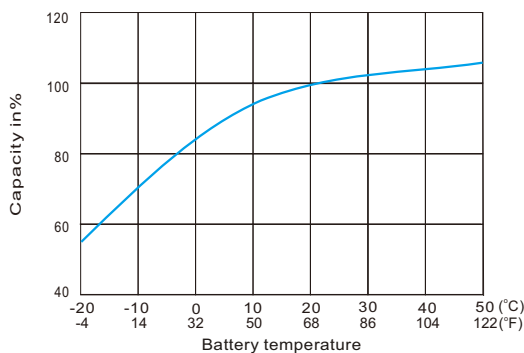
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics

