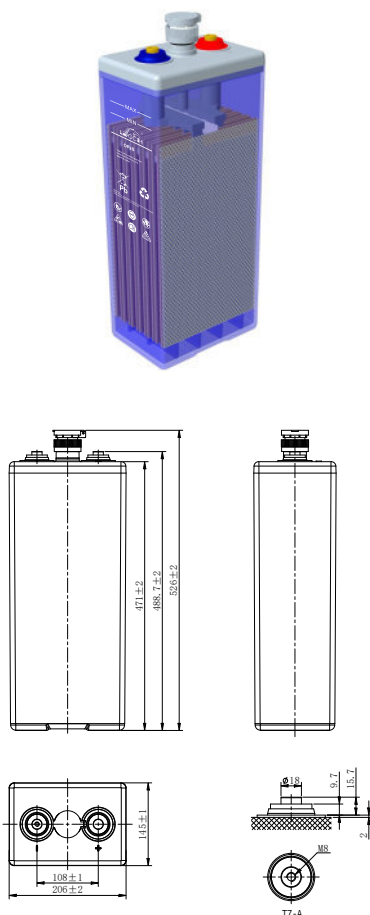


OPzS SERIES-FLOODED BATTERY

6OPzS420 (2V420Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	420Ah
Dimension	Length	145mm(5.71inches)
	Width	206mm(8.11inches)
	Container Height	471mm(18.5inches)
	Total Height	526mm(20.7inches)
Approx Weight	31.5kg(69.4lbs)	
Dry Weight	22.4kg(49.4lbs)	
Terminal	T7-A(M8)	
Container Material	SAN transparent container	
Short-circuit current	3150A	
Internal Resistance (20°C)	Approx 0.88 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	141.7	107.2	88.1	75.3	65.0	58.0	46.5	39.8	22.3	18.8	6.83	5.21	4.47
1.80V/cell	169.5	124.8	99.4	83.1	70.4	62.2	49.7	42.0	23.2	19.5	7.10	5.42	4.65
1.75V/cell	193.7	139.9	105.7	87.7	73.1	63.6	50.8	42.9	23.7	19.9	7.25	5.53	4.74
1.70V/cell	209.6	143.1	109.2	89.5	75.1	65.5	51.7	43.7	24.1	/	/	/	/
1.65V/cell	216.8	146.5	112.5	91.6	76.8	66.4	52.6	44.4	24.5	/	/	/	/
1.60V/cell	223.0	150.0	114.4	92.9	77.8	67.3	53.3	44.9	24.7	/	/	/	/
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	265.1	202.1	167.0	143.2	124.1	111.2	89.7	77.1	43.3	36.5	13.3	10.2	8.73
1.80V/cell	312.6	232.7	186.3	156.5	133.3	118.5	95.0	80.7	44.6	37.7	13.7	10.5	8.99
1.75V/cell	352.6	258.7	196.8	164.1	137.8	120.4	96.8	82.1	45.5	38.3	13.9	10.6	9.13
1.70V/cell	378.2	262.6	201.9	166.5	140.9	123.5	98.0	83.1	46.0	/	/	/	/
1.65V/cell	388.0	267.8	207.0	169.9	143.4	124.9	99.4	84.2	46.5	/	/	/	/
1.60V/cell	395.9	272.8	209.4	171.6	144.6	126.0	100.2	84.8	46.8	/	/	/	/

OPzS SERIES-FLOODED BATTERY

6OPzS420 (2V420Ah)



APPLICATIONS

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

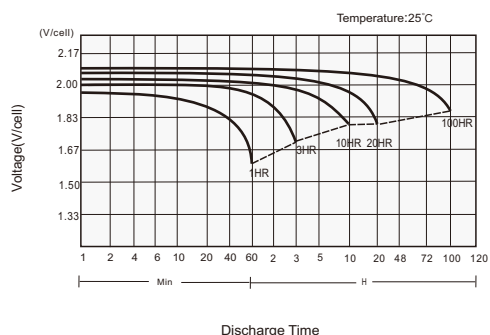
GENERAL FEATURES

- 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

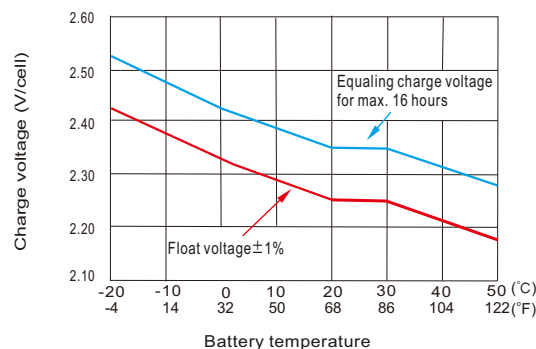
STANDARDS

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

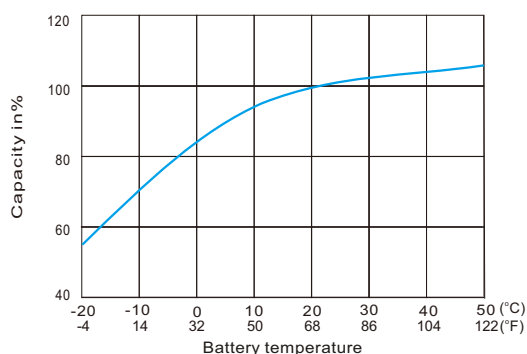
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀A)



Self Discharge Characteristics

