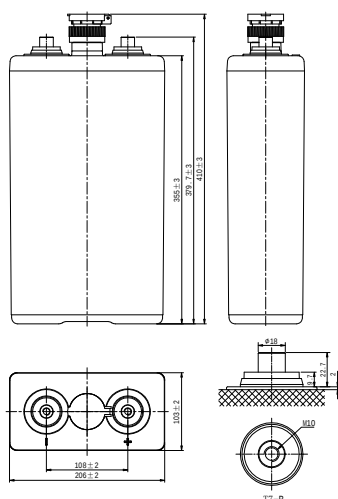


OPzS SERIES-FLOODED BATTERY

3OPzS150 (2V150Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	150Ah
Dimension	Length	103mm (4.06inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight	15.3kg (33.7lbs)	
Dry Weight	10.8kg (23.8lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	1200A	
Internal Resistance (20°C)	Approx 1.3 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%
	20°C (68°F)	100%
Effect of temp. to Capacity	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	59.6	43.5	33.5	27.7	23.9	21.0	17.1	14.4	7.88	6.61	2.37	1.78	1.53
1.80V/cell	69.6	47.9	36.6	30.0	25.5	22.3	18.0	15.0	8.20	6.88	2.47	1.85	1.59
1.75V/cell	75.6	51.0	38.6	31.3	26.6	23.2	18.5	15.3	8.36	7.01	2.52	1.89	1.62
1.70V/cell	79.7	53.3	39.8	32.3	27.4	23.7	18.8	15.6	8.50	/	/	/	/
1.65V/cell	82.8	54.5	41.0	33.0	28.0	24.2	19.2	15.9	8.62	/	/	/	/
1.60V/cell	85.7	55.8	41.7	33.5	28.4	24.5	19.4	16.0	8.70	/	/	/	/
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	111.4	82.0	63.5	52.8	45.8	40.4	33.1	27.8	15.3	12.8	4.57	3.42	2.92
1.80V/cell	128.3	89.4	68.6	56.5	48.4	42.5	34.5	28.8	15.8	13.2	4.72	3.53	3.02
1.75V/cell	137.7	94.3	71.7	58.6	50.2	43.9	35.3	29.3	16.0	13.4	4.78	3.57	3.05
1.70V/cell	143.7	97.7	73.6	60.2	51.4	44.8	35.8	29.7	16.2	/	/	/	/
1.65V/cell	148.2	99.6	75.5	61.3	52.3	45.5	36.3	30.1	16.4	/	/	/	/
1.60V/cell	152.1	101.5	76.4	61.9	52.7	45.9	36.5	30.3	16.5	/	/	/	/

OPzS SERIES-FLOODED BATTERY

3OPzS150 (2V150Ah)



APPLICATIONS

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

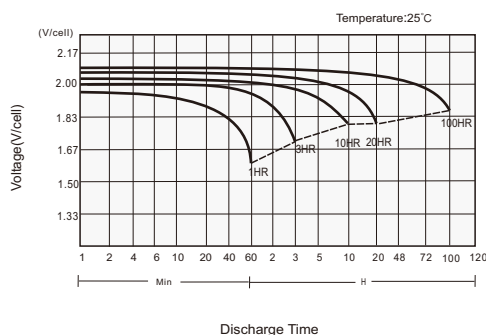
GENERAL FEATURES

- 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

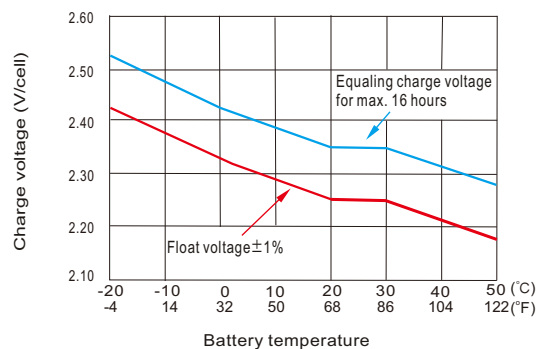
STANDARDS

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

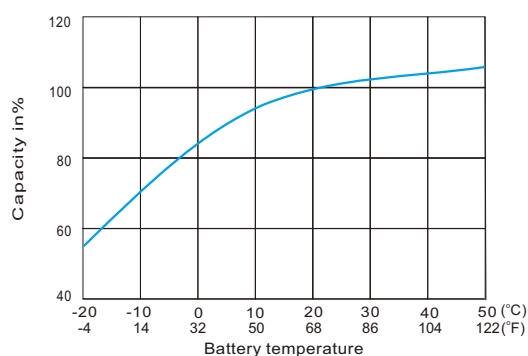
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics

