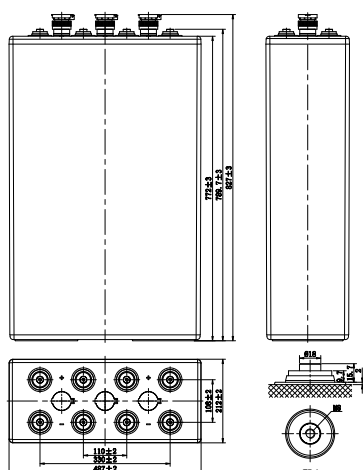


OPzS SERIES-FLOODED BATTERY

20OPzS2500 (2V2500Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	2500Ah
Dimension	Length	487mm(19.2inches)
	Width	212mm(8.35inches)
	Container Height	772mm(30.4inches)
	Total Height	827mm(32.6inches)
Approx Weight	181kg(399.0lbs)	
Dry Weight	127.5kg(281.1lbs)	
Terminal	T7-A(M8)	
Container Material	SAN transparent container	
Short-circuit current	12500A	
Internal Resistance (20°C)	Approx 0.4 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	843.5	638.0	524.8	448.3	387.0	345.0	277.0	236.8	132.5	111.7	40.6	31.0	26.6
1.80V/cell	1009.1	742.8	591.6	494.6	419.1	370.2	295.8	250.0	137.8	116.2	42.3	32.3	27.7
1.75V/cell	1152.8	833.0	629.5	521.8	435.1	378.5	302.5	255.5	141.3	118.6	43.1	33.0	28.2
1.70V/cell	1247.8	852.0	650.1	532.6	447.0	389.6	307.7	260.0	143.6	/	/	/	/
1.65V/cell	1290.3	872.3	669.7	545.0	456.8	395.3	313.2	264.3	145.8	/	/	/	/
1.60V/cell	1327.5	892.8	681.0	553.0	463.0	400.8	317.2	267.5	147.1	/	/	/	/
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	1578.1	1203.2	994.4	853.1	739.1	662.4	534.3	459.1	257.7	217.4	79.2	60.6	51.9
1.80V/cell	1860.7	1385.3	1109.2	931.3	793.7	705.2	565.8	480.7	265.8	224.4	81.7	62.5	53.5
1.75V/cell	2099.2	1540.2	1171.5	976.8	820.5	716.8	575.9	488.8	271.1	227.8	82.9	63.4	54.4
1.70V/cell	2251.0	1563.4	1202.0	991.7	839.0	735.1	583.7	494.5	274.2	/	/	/	/
1.65V/cell	2309.6	1594.5	1232.2	1011.5	853.7	743.5	591.9	501.3	277.4	/	/	/	/
1.60V/cell	2356.3	1624.0	1246.9	1021.3	861.1	750.2	596.3	505.0	278.7	/	/	/	/

OPzS SERIES-FLOODED BATTERY

20OPzS2500 (2V2500Ah)



APPLICATIONS

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

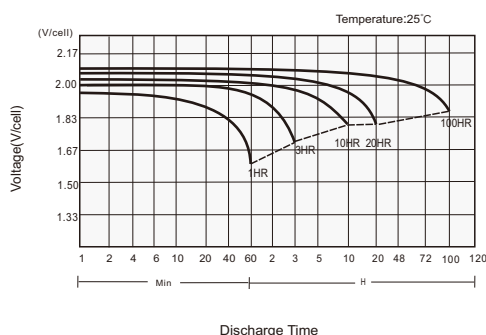
GENERAL FEATURES

- 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

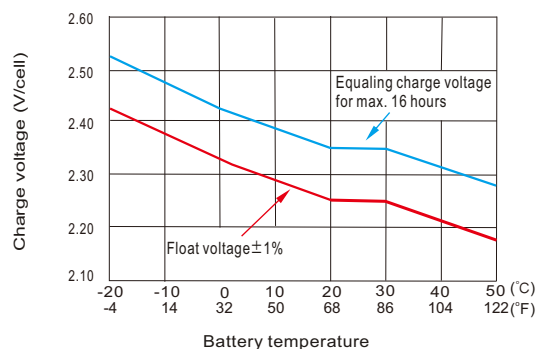
STANDARDS

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

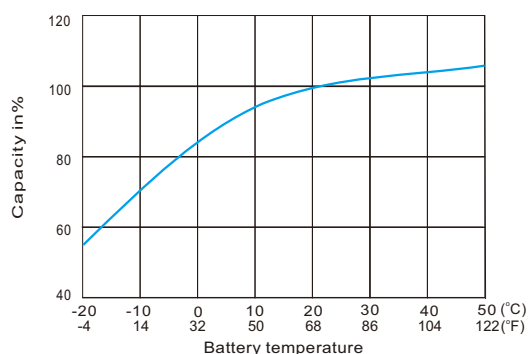
Discharge Characteristics



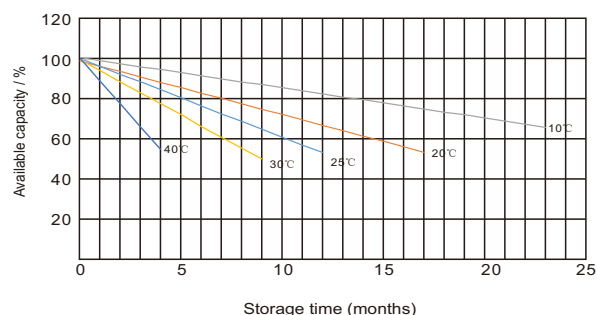
Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics



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