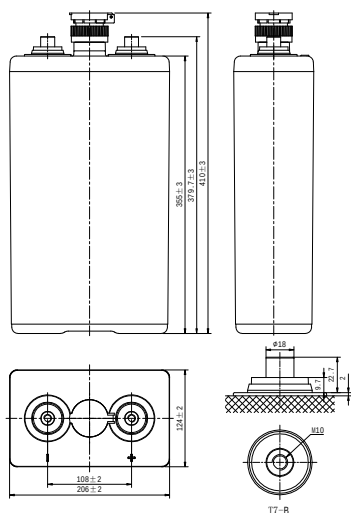


OPzS SERIES-FLOODED BATTERY

5OPzS250 (2V250Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	250Ah
Dimension	Length	124mm (4.88inches)
	Width	206mm (8.11inches)
	Container Height	355mm (14.0inches)
	Total Height	410mm (16.1inches)
Approx Weight	20.4kg (45.0lbs)	
Dry Weight	15.4kg (34.0lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	2000A	
Internal Resistance (20°C)	Approx 1.1 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	99.3	72.5	55.8	46.2	39.9	35.0	28.6	23.9	13.1	11.0	3.95	2.96	2.54
1.80V/cell	116.0	79.9	61.0	50.0	42.6	37.2	30.0	25.0	13.7	11.5	4.13	3.10	2.65
1.75V/cell	126.0	85.0	64.3	52.2	44.4	38.6	30.9	25.6	13.9	11.7	4.19	3.14	2.69
1.70V/cell	132.8	88.8	66.3	53.8	45.6	39.6	31.4	26.0	14.2	/	/	/	/
1.65V/cell	138.0	90.9	68.3	55.1	46.6	40.3	32.0	26.4	14.4	/	/	/	/
1.60V/cell	142.8	93.0	69.5	55.9	47.3	40.9	32.4	26.7	14.5	/	/	/	/
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	185.7	136.7	105.8	88.0	76.3	67.3	55.1	46.4	25.6	21.5	7.64	5.70	4.87
1.80V/cell	213.9	149.0	114.4	94.1	80.7	70.9	57.5	48.1	26.4	22.1	7.88	5.88	5.03
1.75V/cell	229.4	157.2	119.6	97.7	83.7	73.2	58.8	48.9	26.7	22.4	7.97	5.95	5.08
1.70V/cell	239.4	162.9	122.7	100.3	85.6	74.7	59.6	49.5	27.1	/	/	/	/
1.65V/cell	247.1	166.1	125.8	102.2	87.2	75.9	60.4	50.1	27.4	/	/	/	/
1.60V/cell	253.5	169.1	127.3	103.2	87.9	76.6	60.9	50.5	27.5	/	/	/	/

OPzS SERIES-FLOODED BATTERY

5OPzS250 (2V250Ah)



APPLICATIONS

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

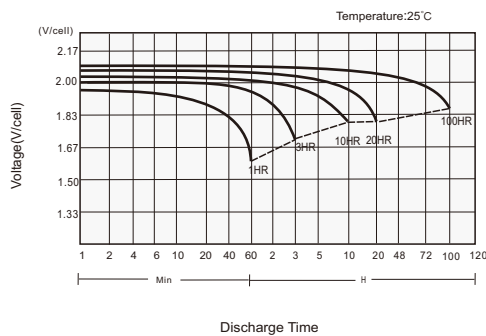
GENERAL FEATURES

- 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

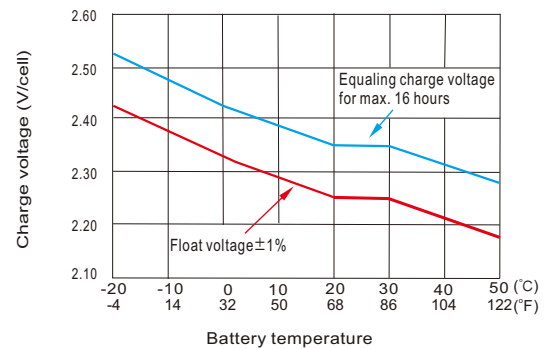
STANDARDS

- Acc.to IEC60896, DIN 40736 standards
- Manufactured in DESA, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

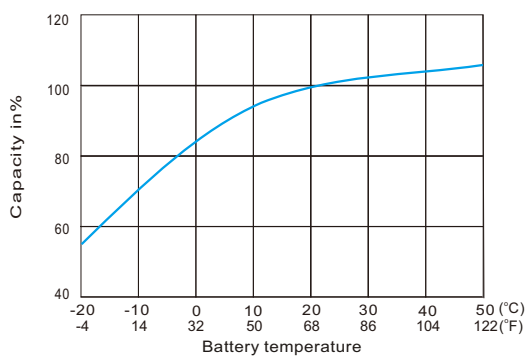
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics

