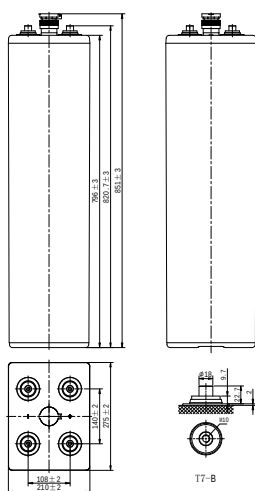


OPzS SERIES-FLOODED BATTERY

12OPzS1500 (2V1500Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (20°C)	C ₁₀ , 1.80V/cell	1500Ah
Dimension	Length	275mm (10.8inches)
	Width	210mm (8.27inches)
	Container Height	796mm (31.3inches)
	Total Height	851mm (33.5inches)
Approx Weight	113.8kg (250.9lbs)	
Dry Weight	83.8kg (184.7lbs)	
Terminal	T7-B(M10)	
Container Material	SAN transparent container	
Short-circuit current	7500A	
Internal Resistance (20°C)	Approx 0.45 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	595.5	435.0	335.0	277.4	239.4	210.3	171.3	143.6	78.8	66.1	23.7	17.8	15.3
1.80V/cell	696.0	479.3	366.0	299.8	255.4	223.3	180.3	150.0	82.0	68.8	24.7	18.5	15.9
1.75V/cell	756.0	510.0	385.5	313.1	266.4	231.8	185.3	153.3	83.6	70.1	25.2	18.9	16.2
1.70V/cell	796.5	532.5	398.0	322.9	273.7	237.5	188.5	155.9	85.0	/	/	/	/
1.65V/cell	828.0	545.3	410.0	330.4	279.7	242.0	191.8	158.5	86.2	/	/	/	/
1.60V/cell	856.5	558.0	417.0	335.3	283.5	245.4	194.2	160.4	87.0	/	/	/	/
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	1114.3	820.5	635.0	527.8	457.6	403.9	330.5	278.4	153.5	128.7	45.9	34.3	29.3
1.80V/cell	1283.5	894.0	686.4	564.7	484.0	425.5	345.0	288.5	158.3	132.7	47.3	35.3	30.2
1.75V/cell	1376.5	942.9	717.5	586.4	502.5	439.0	352.8	293.3	160.5	134.5	47.9	35.8	30.6
1.70V/cell	1436.6	977.4	736.1	601.5	513.7	448.3	357.6	296.9	162.5	/	/	/	/
1.65V/cell	1482.3	996.5	754.7	613.5	523.0	455.5	362.5	300.8	164.2	/	/	/	/
1.60V/cell	1520.7	1014.7	763.7	619.4	527.4	459.5	365.2	302.9	164.9	/	/	/	/

OPzS SERIES-FLOODED BATTERY

12OPzS1500 (2V1500Ah)



APPLICATIONS

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

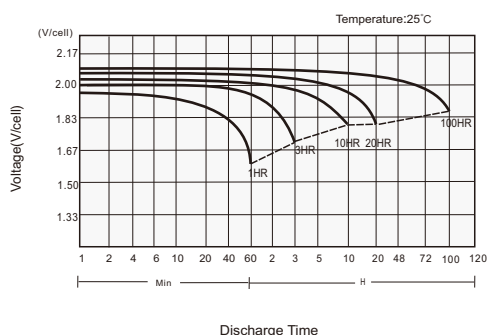
GENERAL FEATURES

- 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

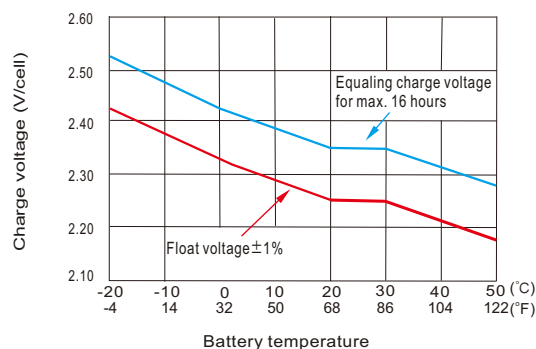
STANDARDS

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

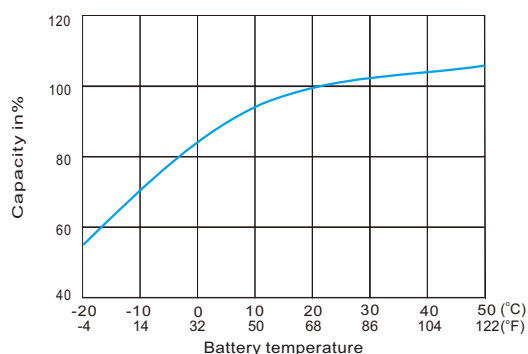
Discharge Characteristics



Charge Voltage vs Ambient Temperature Curve



Discharge Capacity vs Ambient Temperature Curve (I₁₀ A)



Self Discharge Characteristics

