



OPzS Series-Flooded Battery

6 OPzS300(2V304Ah)

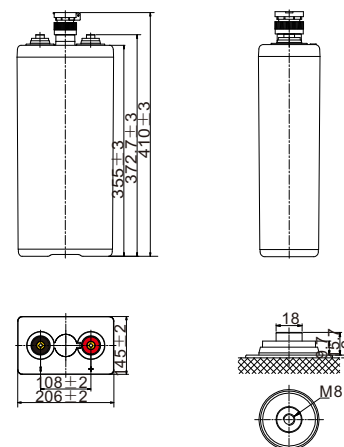


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	304.0Ah
Dimension	Length	145±2mm (5.71 inches)
	Width	206±3mm (8.11 inches)
	Container Height	355±3mm (13.98 inches)
	Total Height	410±3mm (16.14 inches)
Approx Weight	Without Electrolyte 18.5kg (40.8lbs) With Electrolyte 24.5 kg (54.0lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	308.0Ah	(10hr, 30.8A, 1.80V/cell)
	304.0Ah	(8hr, 38.0A, 1.75V/cell)
	273.0Ah	(5hr, 54.6A, 1.75V/cell)
	237.0Ah	(3hr, 79.0A, 1.75V/cell)
	175.6Ah	(1hr, 175.6A, 1.60V/cell)
Max. Discharge Current	2400A (5s)	
Internal Resistance (25°C)	Approx 0.70mΩ	
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±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	138.4	130.8	122.1	103.7	89.2	68.7	56.9	49.1	43.2	35.2	29.4	16.2
1.80V/cell	173.4	157.9	142.7	116.6	98.3	75.0	61.5	52.4	45.8	37.0	30.8	16.8
1.75V/cell	195.0	175.1	155.0	124.4	104.6	79.0	64.2	54.6	47.6	38.0	31.5	17.1
1.70V/cell	207.9	183.7	163.3	130.6	109.2	81.6	66.2	56.1	48.7	38.6	32.0	17.4
1.65V/cell	218.9	194.8	169.7	134.9	111.8	84.1	67.8	57.3	49.6	39.4	32.5	17.6
1.60V/cell	233.1	202.5	175.6	138.4	114.4	85.5	68.8	58.1	50.3	39.8	32.9	17.8

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	256.5	243.6	228.5	194.9	168.2	130.2	108.2	93.8	82.8	67.8	57.1	31.5
1.80V/cell	316.0	289.8	263.1	216.2	183.3	140.7	115.7	99.2	87.2	70.7	59.1	32.5
1.75V/cell	350.4	316.6	282.2	228.0	193.3	147.1	120.2	103.0	90.0	72.4	60.2	32.9
1.70V/cell	367.6	328.6	294.5	237.5	200.4	150.9	123.3	105.3	91.9	73.3	60.9	33.3
1.65V/cell	381.8	344.8	303.9	243.7	204.3	154.7	125.8	107.2	93.4	74.3	61.7	33.6
1.60V/cell	397.9	354.4	311.7	248.8	208.0	156.5	127.0	108.1	94.2	74.8	62.1	33.8



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Applications

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

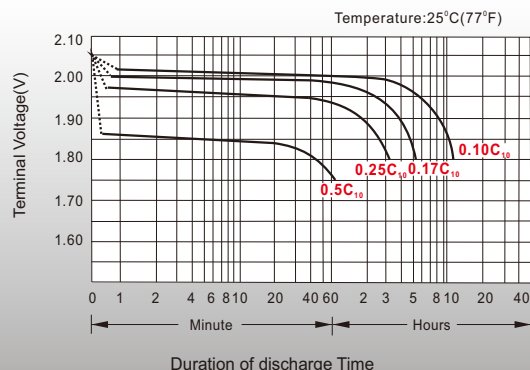
General Features

- 20 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

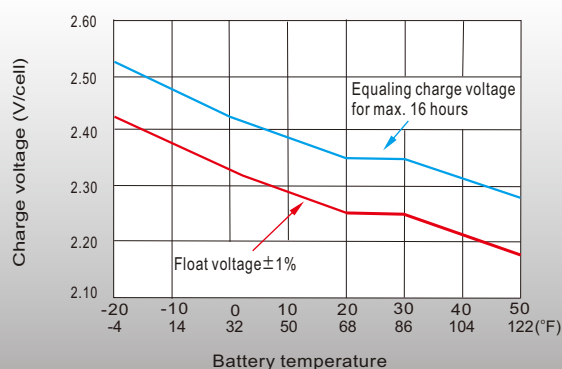
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

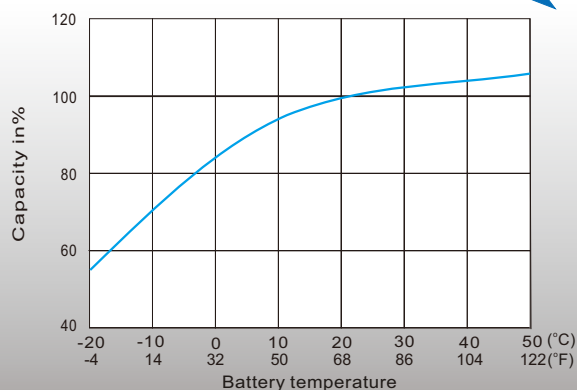
Discharge Characteristics



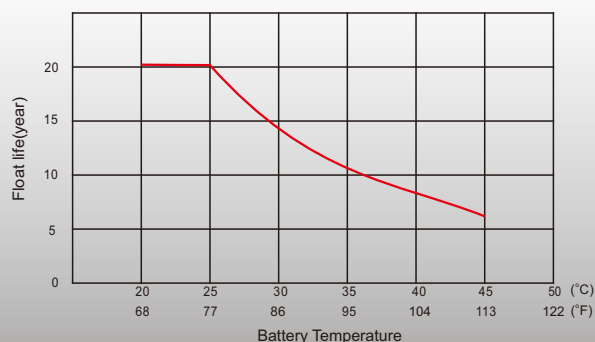
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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