



OPzS Series-Flooded Battery

3 OPzS150(2V152Ah)

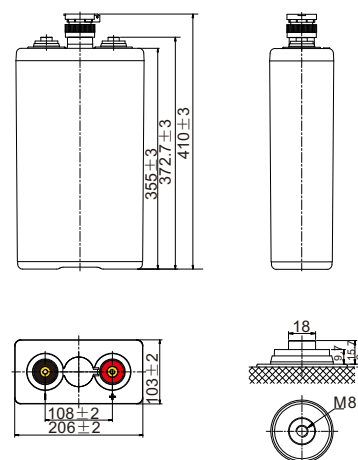


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	152.0Ah
Dimension	Length	103±2mm (4.06 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 10.8kg (23.8lbs) With Electrolyte 15.3 kg (33.7lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	154.0 Ah	(10hr, 15.4A, 1.80V/cell)
	152.0 Ah	(8hr, 19.0A, 1.75V/cell)
	136.5 Ah	(5hr, 27.3A, 1.75V/cell)
	118.8 Ah	(3hr, 39.6A, 1.75V/cell)
	87.8Ah	(1hr, 87.8A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 1.30mΩ	
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	69.2	65.4	61.1	51.9	44.6	34.3	28.4	24.5	21.5	17.5	14.8	8.1
1.80V/cell	86.7	78.9	71.3	58.3	49.1	37.5	30.8	26.1	22.9	18.5	15.4	8.4
1.75V/cell	97.5	87.5	77.5	62.2	52.3	39.6	32.1	27.3	23.8	19.0	15.7	8.6
1.70V/cell	103.9	91.8	81.7	65.3	54.6	40.8	33.1	28.1	24.3	19.3	16.0	8.7
1.65V/cell	109.5	97.4	84.9	67.4	55.9	42.0	33.8	28.7	24.8	19.7	16.3	8.8
1.60V/cell	116.5	101.3	87.8	69.2	57.2	42.7	34.3	29.1	25.1	19.9	16.4	8.9

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	128.2	121.8	114.2	97.4	84.1	65.1	54.1	46.9	41.4	33.9	28.5	15.7
1.80V/cell	158.1	144.9	131.5	108.0	91.6	70.3	57.9	49.6	43.6	35.4	29.5	16.2
1.75V/cell	175.3	158.3	141.1	114.0	96.7	73.5	60.1	51.5	45.0	36.2	30.0	16.4
1.70V/cell	183.8	164.3	147.3	118.8	100.1	75.4	61.7	52.7	45.9	36.7	30.4	16.6
1.65V/cell	191.0	172.4	151.9	121.9	102.1	77.4	62.8	53.6	46.6	37.2	30.9	16.8
1.60V/cell	199.0	177.2	155.9	124.3	104.0	78.3	63.4	54.0	47.0	37.4	31.1	16.9



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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

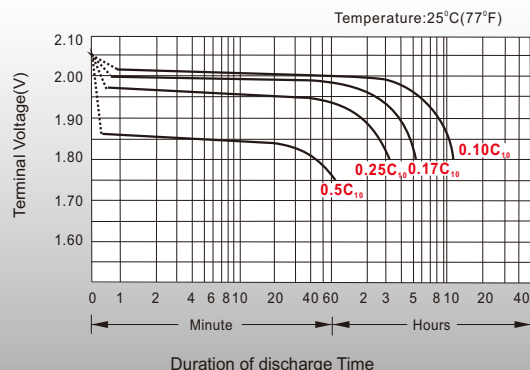
General Features

- 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

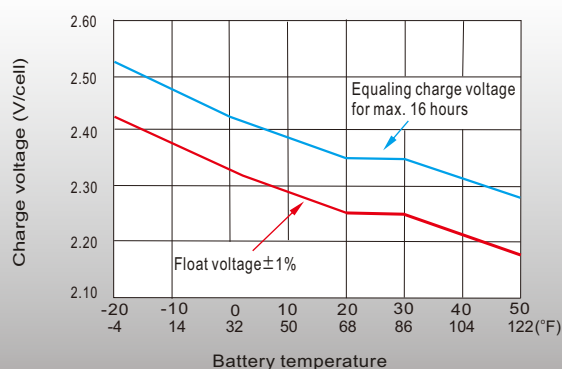
Standards

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

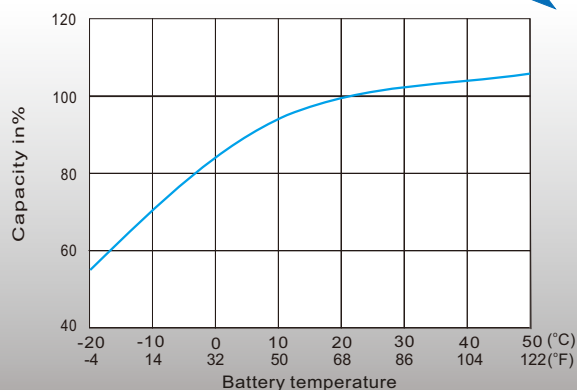
Discharge Characteristics



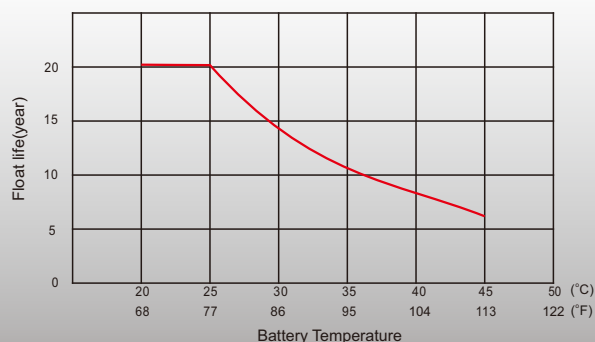
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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