



OPzS Series-Flooded Battery

5 OPzS350(2V354.4Ah)

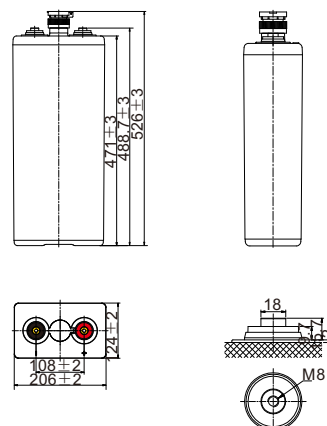


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	354.4Ah
Dimension	Length	124±2mm (4.88 inches)
	Width	206±3mm (8.11 inches)
	Container Height	471±3mm (13.98 inches)
	Total Height	526±3mm (16.14 inches)
Approx Weight	Without Electrolyte 21.3kg (46.9lbs) With Electrolyte 28.3 kg (62.4lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	359.0Ah	(10hr, 35.9A, 1.80V/cell)
	354.4Ah	(8hr, 44.3A, 1.75V/cell)
	319.0Ah	(5hr, 63.8A, 1.75V/cell)
	276.9Ah	(3hr, 92.3A, 1.75V/cell)
	204.9Ah	(1hr, 204.9A, 1.60V/cell)
Max. Discharge Current	2800A (5s)	
Internal Resistance (25°C)	Approx 0.65mΩ	
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	161.4	152.6	142.5	121.1	104.0	80.2	66.3	57.3	50.3	41.0	34.3	18.9
1.80V/cell	202.3	184.2	166.5	136.1	114.6	87.5	71.6	61.1	53.4	43.2	35.9	19.6
1.75V/cell	227.4	204.3	180.8	145.1	122.0	92.3	74.9	63.8	55.5	44.3	36.7	20.0
1.70V/cell	242.5	214.3	190.5	152.3	127.4	95.2	77.2	65.5	56.8	45.1	37.3	20.3
1.65V/cell	255.4	227.2	198.0	157.3	130.4	98.1	79.0	66.9	57.9	45.9	37.9	20.6
1.60V/cell	271.9	236.3	204.9	161.4	133.5	99.7	80.2	67.9	58.7	46.4	38.3	20.8

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	299.1	284.2	266.5	227.3	196.2	151.9	126.3	109.5	96.6	79.0	66.6	36.7
1.80V/cell	368.7	338.1	307.0	252.2	213.8	164.2	135.1	115.7	101.8	82.5	69.0	37.8
1.75V/cell	408.9	369.3	329.2	266.0	225.5	171.6	140.2	120.1	105.0	84.4	70.1	38.3
1.70V/cell	428.8	383.5	343.6	277.1	233.8	176.1	143.9	122.9	107.2	85.5	71.0	38.8
1.65V/cell	445.5	402.3	354.5	284.3	238.3	180.5	146.7	125.1	109.0	86.7	72.0	39.3
1.60V/cell	464.2	413.5	363.7	290.2	242.7	182.7	148.1	126.2	109.9	87.3	72.5	39.5



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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

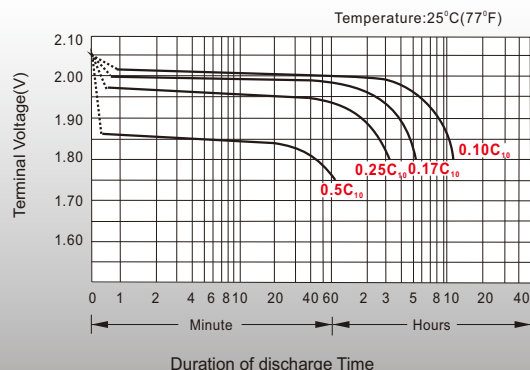
General Features

- 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

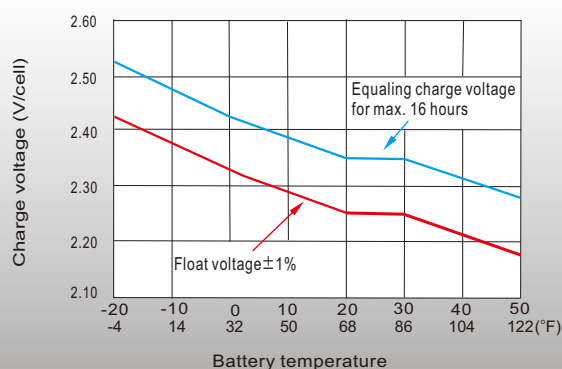
Standards

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

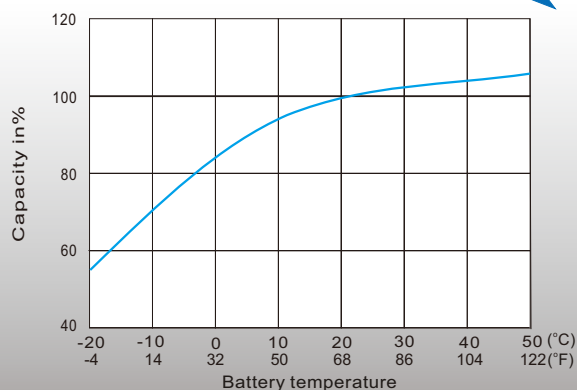
Discharge Characteristics



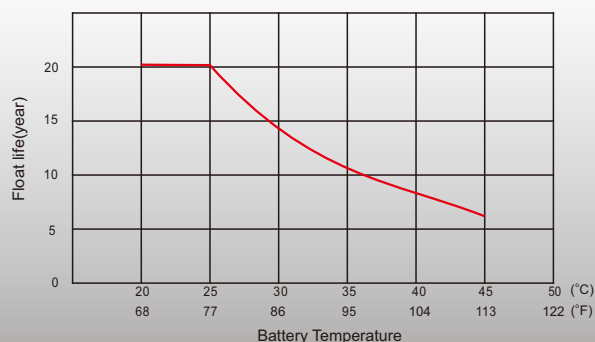
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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