



OPzS Series-Flooded Battery

7 OPzS490(2V496Ah)

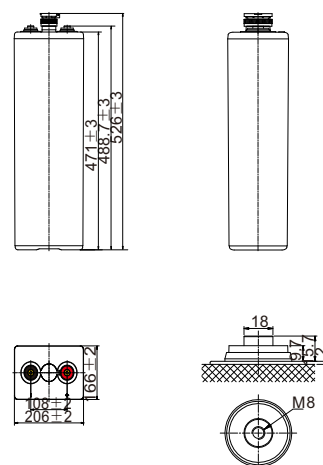


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₈ , 1.75V/cell	496.0Ah
Dimension	Length	166±2mm (6.53 inches)
	Width	206±3mm (8.11 inches)
	Container Height	471±3mm (18.54 inches)
	Total Height	526±3mm (20.71 inches)
Approx Weight	Without Electrolyte 28.2kg (62.0lbs) With Electrolyte 38.0 kg (83.8lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	502.0Ah	(10hr, 50.2A, 1.80V/cell)
	496.0Ah	(8hr, 62.0A, 1.75V/cell)
	446.0Ah	(5hr, 89.2A, 1.75V/cell)
	387.0Ah	(3hr, 129.0A, 1.75V/cell)
	286.8Ah	(1hr, 351.2A, 1.60V/cell)
Max. Discharge Current	3920A (5s)	
Internal Resistance (25°C)	Approx 0.54mΩ	
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	226.0	213.6	199.4	169.4	145.7	112.1	92.9	80.2	70.4	57.4	48.1	26.4
1.80V/cell	283.3	257.8	233.1	190.5	160.5	122.6	100.3	85.5	74.7	60.4	50.2	27.5
1.75V/cell	318.5	286.0	253.2	203.3	170.8	129.0	104.9	89.2	77.6	62.0	51.4	28.0
1.70V/cell	339.5	300.0	266.7	213.3	178.4	133.3	108.1	91.6	79.5	63.1	52.2	28.5
1.65V/cell	357.6	318.1	277.3	220.3	182.6	137.2	110.6	93.7	81.1	64.3	53.1	28.9
1.60V/cell	380.7	330.8	286.8	226.0	186.9	139.6	112.2	94.9	82.2	65.0	53.7	29.1

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	418.8	397.9	373.1	318.3	274.7	212.6	176.7	153.2	135.2	110.7	93.2	51.4
1.80V/cell	516.2	473.3	429.8	353.0	299.3	229.8	189.1	162.1	142.5	115.5	96.6	53.0
1.75V/cell	572.5	517.1	460.9	372.3	315.7	240.3	196.3	168.2	147.0	118.2	98.2	53.7
1.70V/cell	600.2	536.8	481.0	387.9	327.3	246.5	201.4	172.0	150.2	119.7	99.4	54.4
1.65V/cell	623.7	563.2	496.3	398.1	333.6	252.7	205.4	175.2	152.5	121.4	100.8	54.9
1.60V/cell	649.9	578.9	509.2	406.3	339.8	255.7	207.4	176.6	153.9	122.3	101.4	55.2



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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

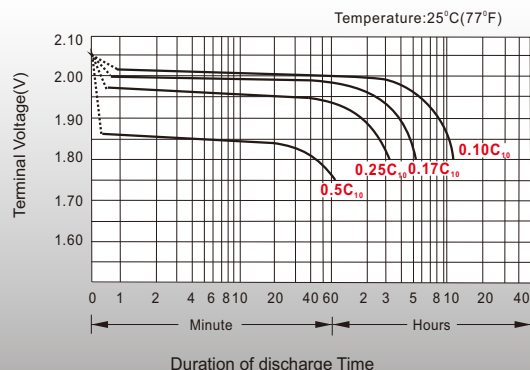
General Features

- 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

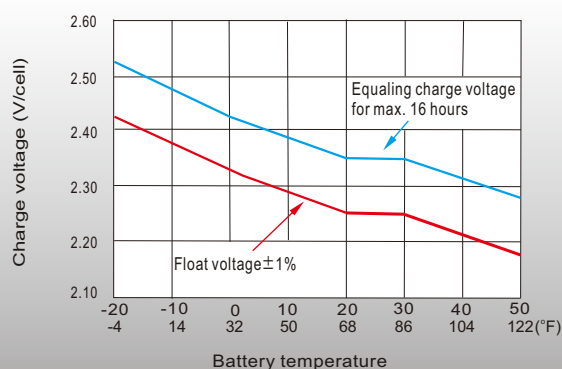
Standards

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

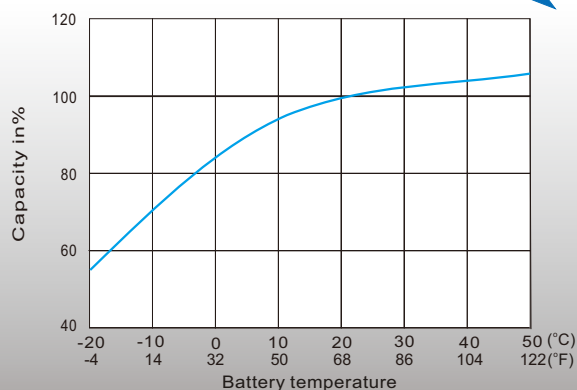
Discharge Characteristics



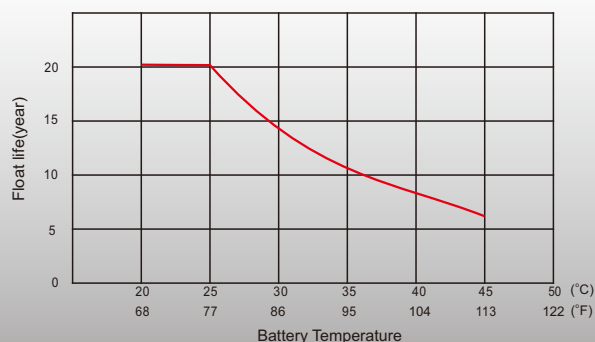
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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