



OPzS Series-Flooded Battery

6 OPzS600(2V600Ah)

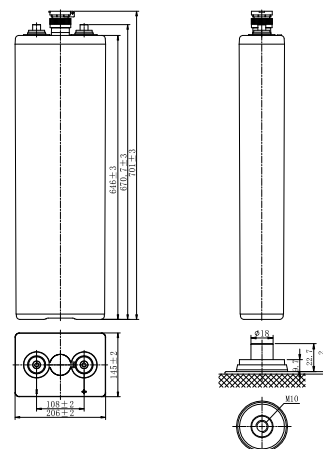


Specifications

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/cell$	600.0Ah
Dimension	Length	145±2mm (5.71 inches)
	Width	206±2mm (8.11 inches)
	Container Height	646±3mm (25.43 inches)
	Total Height	701±3mm (27.60 inches)
Approx Weight	Without Electrolyte	33.4kg (73.6lbs)
	With Electrolyte	45.4 kg (100.1lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	600.0 Ah	(10hr, 60.0A, 1.80V/cell)
	533.0 Ah	(5hr, 106.6A, 1.75V/cell)
	462.6 Ah	(3hr, 154.2A, 1.75V/cell)
	342.6 Ah	(1hr, 342.6A, 1.60V/cell)
Max. Discharge Current	4800A (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 20°C(68°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 20°C(68°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 20 °C (68°F)

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	454.8	395.2	342.6	270.0	223.2	166.8	134.1	113.4	98.2	77.7	64.2	34.8
1.65V/cell	427.2	380.0	331.2	263.2	218.1	164.0	132.2	111.9	96.8	76.7	63.4	34.5
1.70V/cell	405.6	358.4	318.6	254.8	213.0	159.2	129.2	109.5	95.0	75.4	62.4	34.0
1.75V/cell	380.4	341.6	302.4	242.8	204.0	154.2	125.3	106.6	92.7	74.1	61.3	33.4
1.80V/cell	338.4	308.0	278.4	227.6	191.7	146.4	119.9	102.2	89.3	72.1	60.0	32.8
1.85V/cell	270.0	255.2	238.2	202.4	174.0	134.0	110.9	95.8	84.1	68.5	57.4	31.5

Constant Power Discharge (Watts/cell) at 20 °C (68°F)

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	776.3	691.6	608.3	485.4	405.9	305.5	247.8	211.0	183.8	146.1	121.2	66.0
1.65V/cell	745.1	672.9	592.9	475.5	398.6	301.9	245.4	209.2	182.2	145.0	120.3	65.7
1.70V/cell	717.1	641.3	574.7	463.4	391.0	294.5	240.6	205.5	179.3	143.0	118.7	65.0
1.75V/cell	683.9	617.7	550.6	444.8	377.2	287.0	234.5	201.0	175.6	141.1	117.3	64.2
1.80V/cell	616.6	565.5	513.4	421.7	357.6	274.6	225.9	193.6	170.2	138.0	115.4	63.3
1.85V/cell	500.3	475.3	445.7	380.2	328.2	254.0	211.1	183.0	161.5	132.2	111.3	61.4



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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

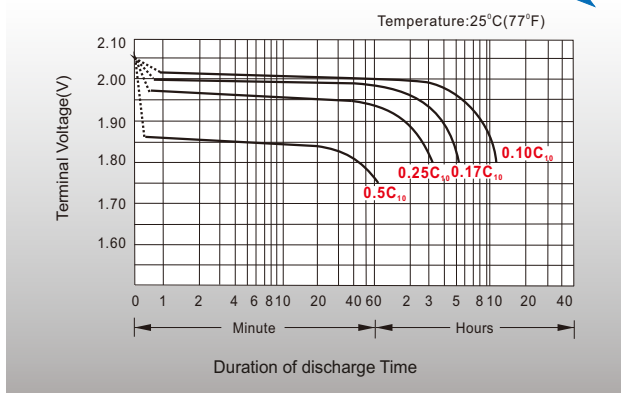
General Features

- 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

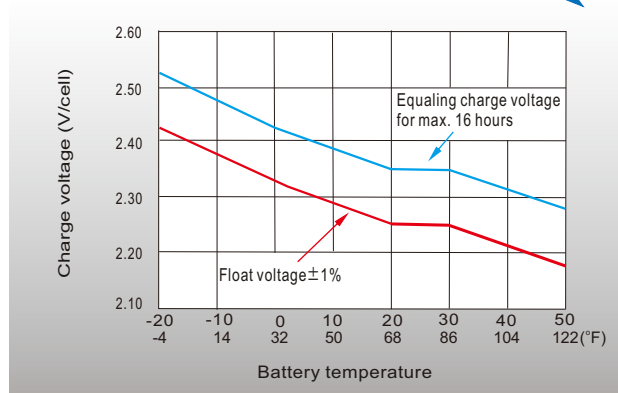
Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch@IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

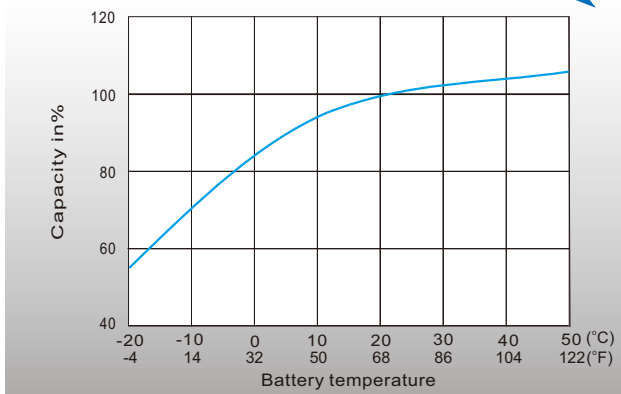
Discharge Characteristics



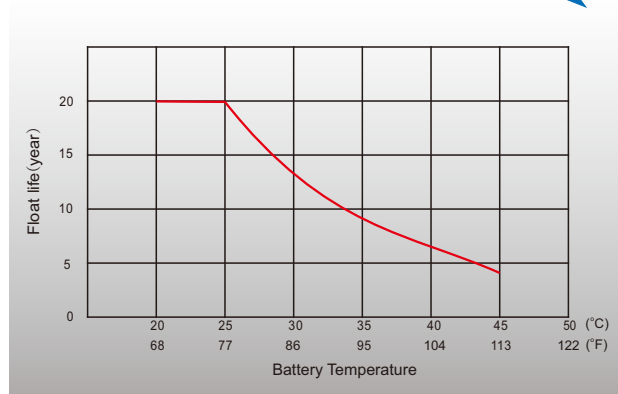
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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