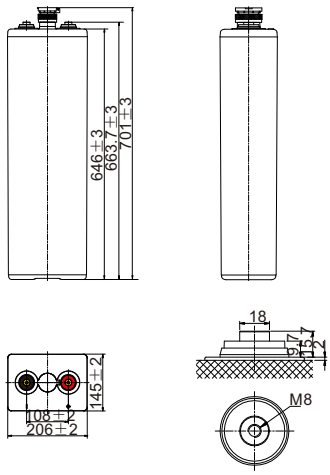
OPzS Series-Flooded Battery
6 OPzS600(2V608Ah)

LEOCH BATTERY

Specifications

Rated Voltage		2V
Nominal Capacity	C_8,1.75V/cell	608.0Ah
Dimension	Length Width Container Height Total Height	145±2mm (5.71 inches) 206±3mm (8.11 inches) 646±3mm (25.43 inches) 701±3mm (27.60 inches)
Approx Weight		Without Electrolyte 33.4kg (73.6lbs) With Electrolyte 45.4 kg (100.1lbs)
Terminal		M8
Container Material		SAN transparent container
Rated Capacity (25°C)	615.0Ah 608.0Ah 546.5Ah 474.3Ah 351.2Ah	(10hr,61.5A,1.80V/cell) (8hr,76.0A,1.75V/cell) (5hr,109.3A,1.75V/cell) (3hr,158.1A,1.75V/cell) (1hr,351.2A,1.60V/cell)
Max. Discharge Current		4800A (5s)
Internal Resistance (25℃)		Approx 0.55mΩ
Operating Temp.Range	Discharge Charge Storage	-15 ~ 55°C (5 ~ 131°F) 0 ~ 45°C (32 ~ 113°F) -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) 25°C (77°F) 0°C (32°F)	103% 100% 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	276.8	261.6	244.2	207.5	178.4	137.4	113.7	98.2	86.2	70.2	58.8	32.3
1.80V/cell	346.9	315.7	285.4	233.3	196.5	150.1	122.9	104.8	91.5	73.9	61.5	33.6
1.75V/cell	389.9	350.1	310.0	248.9	209.1	158.1	128.4	109.3	95.0	76.0	62.8	34.2
1.70V/cell	415.7	367.4	326.6	261.2	218.3	163.2	132.4	112.2	97.4	77.3	64.0	34.9
1.65V/cell	437.9	389.5	339.5	269.8	223.6	168.1	135.5	114.7	99.2	78.6	65.0	35.4
1.60V/cell	466.2	405.1	351.2	276.8	228.8	171.0	137.5	116.2	100.7	79.6	65.8	35.7

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	512.8	487.2	456.8	389.7	336.4	260.4	216.4	187.6	165.5	135.5	114.1	62.9
1.80V/cell	632.0	579.6	526.2	432.2	366.5	281.5	231.5	198.4	174.5	141.5	118.3	64.9
1.75V/cell	701.0	633.1	564.4	455.9	386.6	294.2	240.4	206.0	180.0	144.6	120.2	65.8
1.70V/cell	735.0	657.3	589.1	475.0	400.8	301.9	246.6	210.6	183.8	146.6	121.7	66.6
1.65V/cell	763.7	689.7	607.7	487.4	408.6	309.4	251.5	214.4	186.8	148.6	123.3	67.3
1.60V/cell	795.7	708.9	623.5	497.5	416.0	313.1	254.0	216.3	188.4	149.8	124.2	67.7

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LEOCH BATTERY

Applications

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

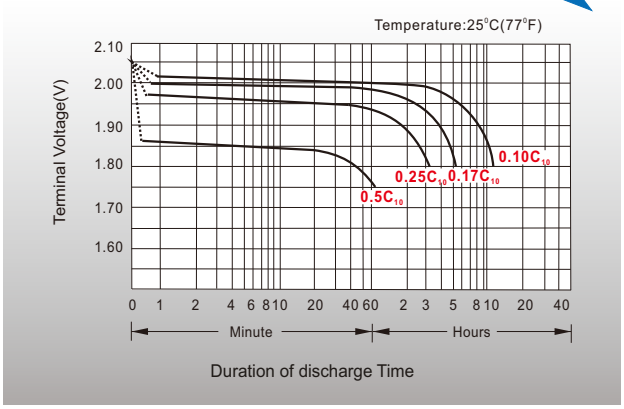
General Features

- 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

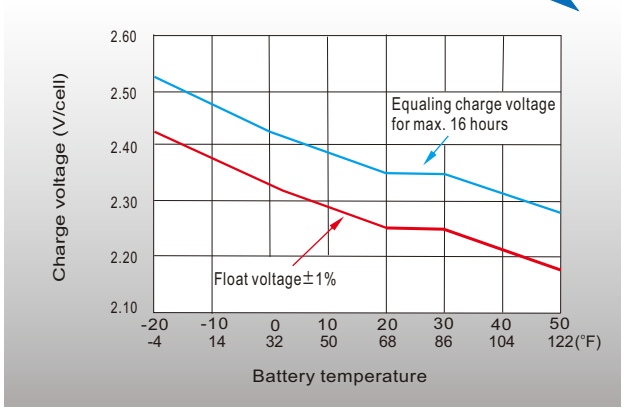
Standards

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

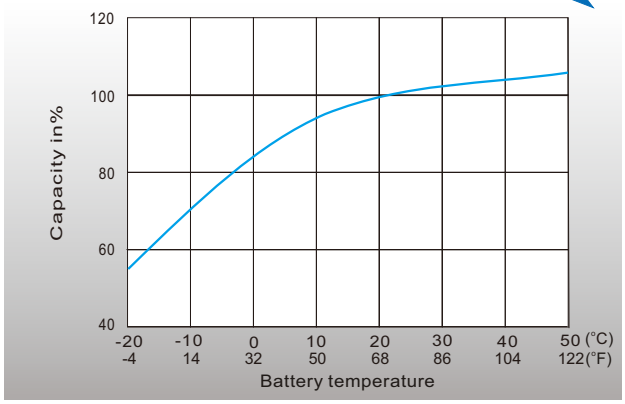
Discharge Characteristics



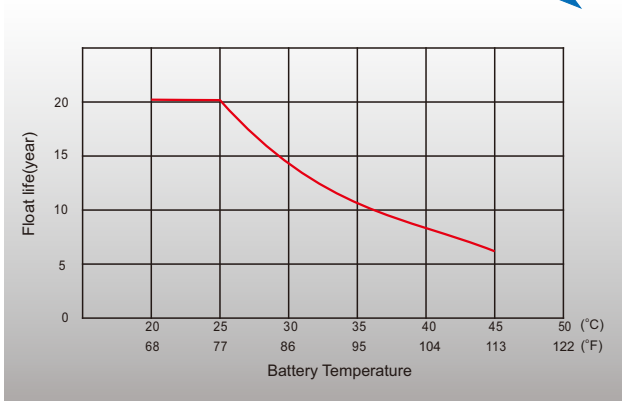
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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