



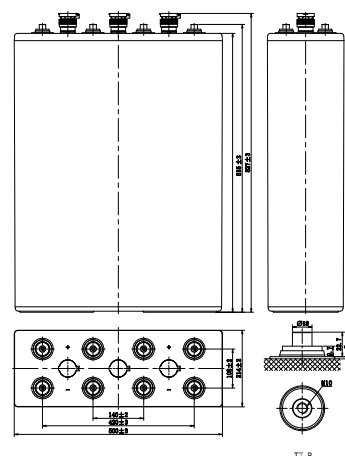
OPzS Series-Flooded Battery 24 OPzS3000(2V2960Ah)

Specifications

Rated Voltage		2V
Nominal Capacity	C ₁₀ , 1.80V/cell	2960.0Ah
Dimension	Length	214±2mm (8.42 inches)
	Width	500±2mm (19.68 inches)
	Container Height	815 ±3mm (32.08 inches)
	Total Height	827±3mm (32.56 inches)
Approx Weight		Without Electrolyte 164.8kg (362.56lbs) With Electrolyte 224.8 kg (494.56lbs)
Terminal		T7-B(M10)
Container Material		SAN transparent container
Rated Capacity	2960.0 Ah	(10hr, 296.0A, 1.80V/cell)
	2678.0 Ah	(5hr, 535.6A, 1.77V/cell)
	2335.0 Ah	(3hr, 778.3A, 1.75V/cell)
	1652.0 Ah	(1hr, 1652.0A, 1.67V/cell)
Max. Discharge Current		24000A (5s)
Internal Resistance (20°C)		Approx 0.38mΩ
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±5°C (77±9°F)
Cycle Use		Initial Charging Current less than 0.15CA. Voltage 2.40V~2.45V at 20°C(68°F)Temp. Coefficient -5mV/°C
Standby Use		Initial Charging Current less than 0.15CA. Voltage 2.23V~2.25V at 20°C(68°F)Temp. Coefficient -3mV/°C
Effect of temp. to Capacity	40°C (104°F)	103%
	20°C (68°F)	100%
	0°C (32°F)	86%
Self Discharge		≤4% per month at 20°C



Layout



Constant Current Discharge (Amperes) at 20 °C (68°F)

F. V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	1191.0	870.0	670.0	554.7	478.8	420.5	342.7	287.2	157.7	132.3	47.5	35.6	30.5
1.80V/cell	1392.0	958.5	535.6	599.6	510.9	446.5	360.5	296.0	164.0	137.5	49.4	37.0	31.7
1.77V/cell	1512.0	1020.0	779.0	626.3	536.0	463.5	370.7	306.7	167.1	140.1	50.3	37.7	32.3
1.75V/cell	1552.0	1065.0	778.3	645.8	547.3	474.9	376.9	311.9	170.0	/	/	/	/
1.67V/cell	1652.0	1090.5	820.0	660.8	559.5	484.1	383.6	317.1	172.4	/	/	/	/
1.60V/cell	1713.0	1116.0	834.0	670.5	567.0	490.8	388.4	320.8	174.0	/	/	/	/

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

F. V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	72h	100h	120h
1.85V/cell	2228.6	1640.9	1270.0	1055.7	915.1	807.7	661.0	556.7	307.0	257.3	91.7	68.5	58.6
1.80V/cell	2567.0	1788.0	1372.8	1129.4	968.1	850.9	690.1	566.9	316.6	265.4	94.6	70.7	60.4
1.77V/cell	2753.0	1885.9	1435.0	1172.7	1000.0	878.0	705.7	586.5	321.0	269.1	95.9	71.7	61.3
1.75V/cell	2873.3	1954.8	1452.3	1203.1	1027.5	896.7	715.2	593.7	324.9	/	/	/	/
1.67V/cell	2904.6	1993.0	1509.4	1226.9	1046.1	911.0	725.0	601.7	328.3	/	/	/	/
1.60V/cell	3041.4	2029.4	1527.5	1238.8	1054.8	918.9	730.3	605.8	329.8	/	/	/	/



OPzS Series-Flooded Battery 24 OPzS3000(2V2960Ah)

Applications

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

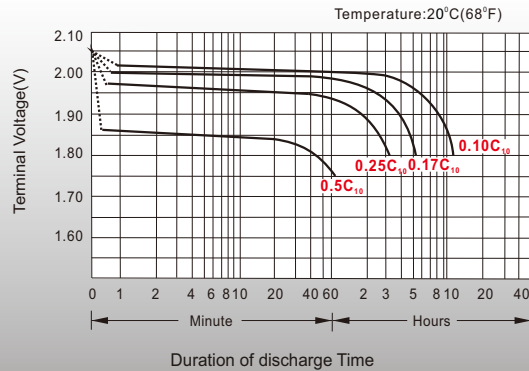
General Features

- 20 years design life(20°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

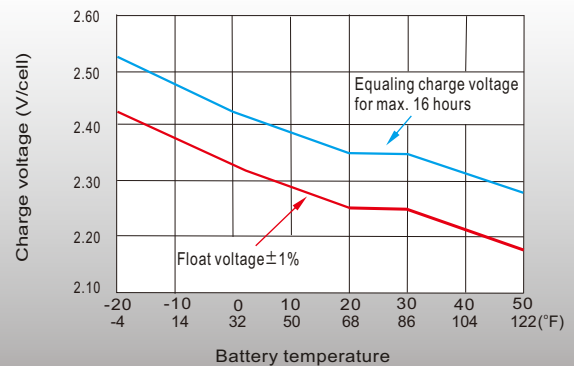
Standards

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

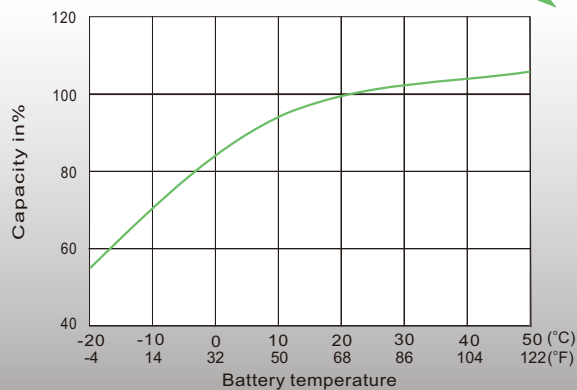
Discharge Characteristics



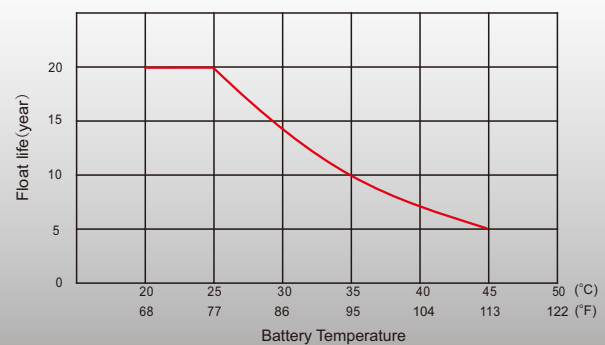
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Effect of Temperature on Long Term Float Life



Sales Offices Worldwide

Head Office in MARSTECH SYSTEMS PTE LTD
Block 24, Sin Ming Lane #05-107 Midview City
Singapore

Manufacture in ANHUI LEOCH POWER SUPPLY CORP
No.1, Yingchun Road, Suixi Economic Development Zone,
Suixi County, Huaibei City, Anhui Province,
P.R. China

Manufacture in LEOCH ACCUPOWER (M) SDN BHD
Lot 13338 & 2493, Jalan Sukepi, Kawasan Perindustrian Jenjarom
42600 Kuala Langat, Selangor Darul Ehsan,
Malaysia