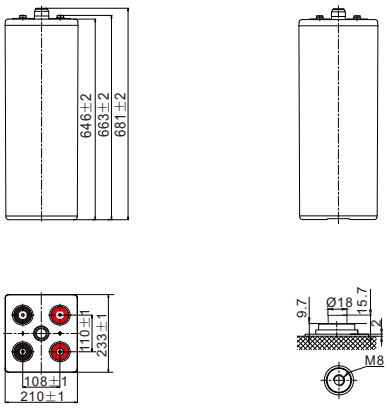
LEOCH BATTERY

10 OPzV1000

Specification

Nominal Voltage		2V
Rated Capacity	1120.0Ah	(C_{10},1.80V/cell)
Dimension	Length	233mm(9.17 in.)
	Width	210mm(8.27 in.)
	Container Height	646mm(25.43 in.)
	Total Height (with Terminal)	681mm(26.81 in.)
Approx Weight		78.5Kg (173.06 lbs)
Terminal		M8
Container Material		ABS
Capacity	1120 Ah	(10hr,112.0A,1.80V/cell)
	908.5 Ah	(5hr,181.7A,1.75V/cell)
	800.1 Ah	(3hr,266.7A,1.75V/cell)
	602.6 Ah	(1hr,602.6A,1.67V/cell)
Max. Discharge Current		8000A (5s)
Internal Resistance		Approx 0.38 mΩ
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range		25°C±3°C (77°F±5°F)
Cycle Use(25°C)	Charging Current	≤250.0A
	Charging Voltage	2.35V~2.40V
Standby Use (25°C)	Charging Current	≤250.0A
	Charging Voltage	2.25V
	Temp. Coefficient	-3mV/cell/°C
Self Discharge		≤3% per month at 25°C

Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	682.0	648.0	558.0	467.3	309.8	239.4	164.9	123.2	104.9
1.80V/cell	839.0	784.0	650.0	527.1	340.2	261.5	177.5	132.2	112.0
1.75V/cell	992.0	877.0	693.0	548.1	349.7	266.7	181.7	133.3	114.2
1.70V/cell	1,113.0	957.0	769.7	585.4	369.4	279.7	189.0	135.5	115.4
1.67V/cell	1,196.0	1,011.0	801.2	602.6	376.9	285.1	192.2	136.6	116.5
1.60V/cell	1,251.0	1,047.0	821.1	613.4	382.3	288.4	194.4	137.8	117.6

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	1,268.0	1,217.0	1,066.0	905.1	602.7	468.3	324.5	243.0	208.3
1.80V/cell	1,532.0	1,452.0	1,230.0	1,012.2	658.4	507.2	348.6	259.8	222.9
1.75V/cell	1,782.0	1,603.0	1,298.0	1,046.9	673.1	516.6	353.9	264.3	225.1
1.70V/cell	1,964.0	1,724.0	1,428.0	1,111.3	706.3	540.0	368.3	266.6	227.4
1.67V/cell	2,071.0	1,793.0	1,470.0	1,135.1	718.2	547.6	372.6	269.9	229.6
1.60V/cell	2,126.0	1,830.0	1,492.1	1,147.0	723.6	551.9	374.8	271.0	230.7

Specifications subject to change without notice.

Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations,Conventional power stations,alternative pwer(solar,wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

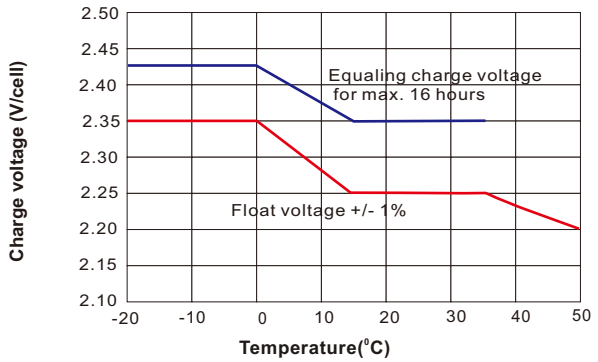
General Features

- Better recovery performance
- Wide working temperature range (-20~50)℃
- No electrolyte stratification provides longer service life.
- High recombination efficient.
- Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity.PVC-SiO_2 and low resistance.
- Pasted negative plate special grid design increase the active material.availablity large current discharge and charge ability.
- Tubuler type positive plate (polyester tube) prevent the active material from falling. Muti metal alloy pressed positive grid increase the anti corrosion ablity and service life.

Standards

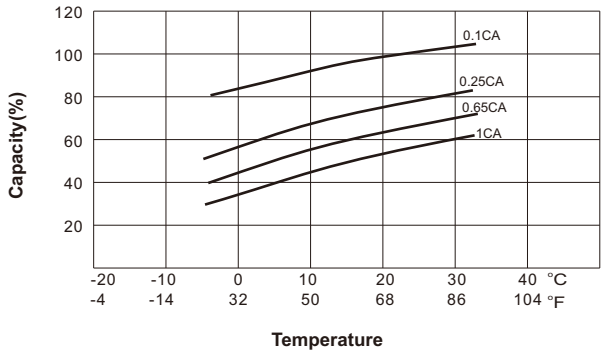
- IEC 60896Certified
- Classified as “Very Long Life” according to Eurobat
- UL Certified
- Manufactured in Leoch® TS16949,ISO 9001 and ISO 14001 certified production facilities

Charge voltage vs ambient temperature curve

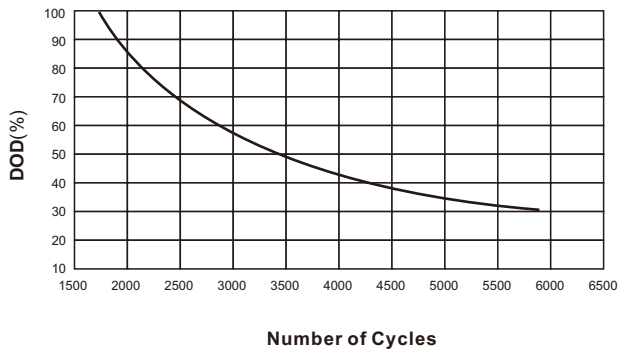


For continuous charging we recommend a voltage of 2.25 V.
The charging voltage must be compensated to the curve for acontinuously different battery ambient temperature.

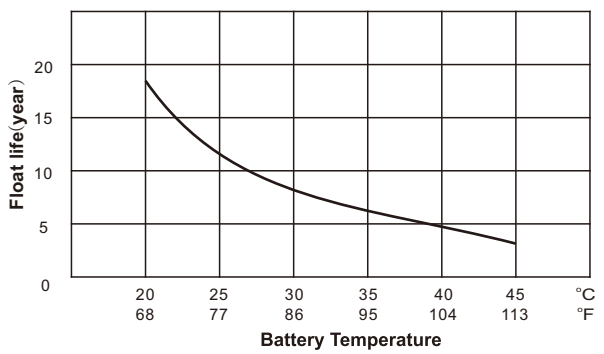
Temperature Effects in Relation to Battery Capacity



Cycle Life



Float Life



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