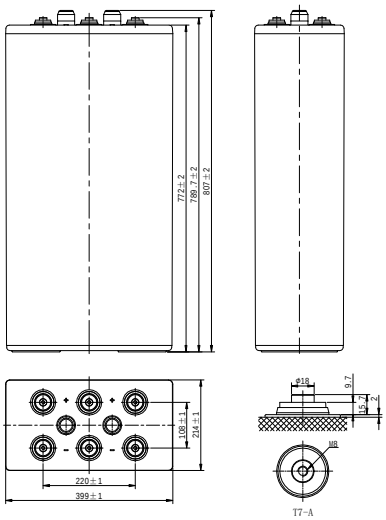
OPzV SERIES-TUBULAR GEL

16OPzV2000 (2V2000Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	2000Ah
Dimension	Length	399mm (15.7inches)
	Width	214mm (8.43inches)
	Container Height	772mm (30.4inches)
	Total Height	807mm (31.8inches)
Approx Weight		155.0kg (341.7lbs)
Terminal		T7-A(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		10000A
Internal Resistance (25˚C)		Approx 0.31 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~55˚C (-4~131˚F)
	Charge	0~40˚C (32~104˚F)
	Storage	-20~50˚C (-4~122˚F)
Nominal Operating Temp. Range		25±3˚C (77±5˚F)
Max.Charging Current (25˚C)		0.25C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.40-2.45V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	106%
	25˚C (77°F)	100%
	0˚C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F)	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	893.8	604.4	464.0	317.4	222.5	187.4	89.0	46.5	33.5	25.4	21.9
1.80V/cell	1002.0	662.0	504.7	342.0	238.0	200.0	92.1	48.3	34.7	26.0	22.5
1.75V/cell	1041.9	685.0	516.1	348.9	242.0	203.4	92.7	49.4	35.6	26.5	22.8
1.70V/cell	1087.4	702.3	526.4	354.0	245.5	205.7	94.2	50.4	36.0	26.9	23.1
1.67V/cell	1115.9	713.8	536.2	359.7	248.3	207.4	95.0	50.9	36.3	27.4	23.4
1.60V/cell	1132.9	725.3	542.5	363.2	250.1	209.1	95.8	51.5	36.5	27.7	23.7
Constant Power Discharge (Watts/cell) at 25°C (77°F)											
F.V/Time	1h	2h	3h	5h	8h	10h	24h	48h	72h	100h	120h
1.85V/cell	1725.0	1174.3	905.1	623.4	440.9	372.6	177.9	93.2	67.2	51.0	44.0
1.80V/cell	1930.0	1283.7	979.5	669.1	471.4	397.1	183.8	96.6	69.6	52.2	45.2
1.75V/cell	1992.6	1312.5	996.7	680.6	478.3	402.9	184.8	98.7	71.3	53.2	45.9
1.70V/cell	2060.9	1341.3	1013.9	692.0	483.5	406.9	187.6	100.5	72.0	53.9	46.4
1.67V/cell	2100.8	1364.3	1031.1	697.7	488.1	410.3	189.1	101.5	72.5	54.8	47.0
1.60V/cell	2123.6	1375.8	1036.8	703.4	490.4	412.6	190.4	102.5	72.9	55.3	47.4

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APPLICATIONS

- Float charging applications: communication center, telecom basestation, UPS, power station, electric substation
- Solar and wind energy storage system
- Off-grid and bad-grid hybrid sites

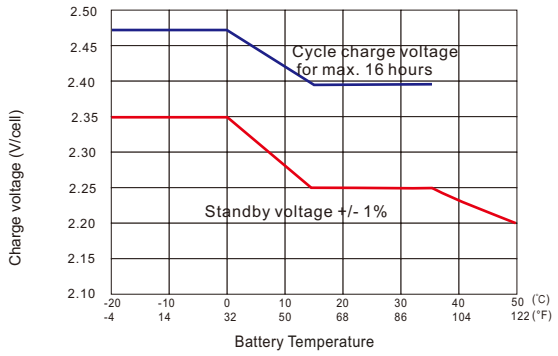
GENERAL FEATURES

- 20 year design life (20℃)
- Strong Lead-calcium alloy tubular plate technology - for longer life in the toughest conditions
- Gelled electrolyte for superior thermal management, long float life
- Proof against deep discharge - greater long-term energy delivery
- Exceptional cycling performance - 2500+ cycles at 60% Depth of Discharge

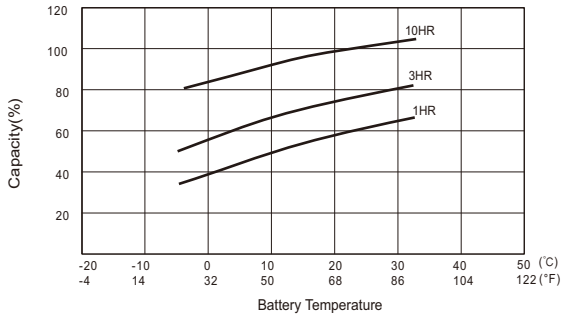
STANDARDS

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Approved
- Manufactured in Leoch®IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

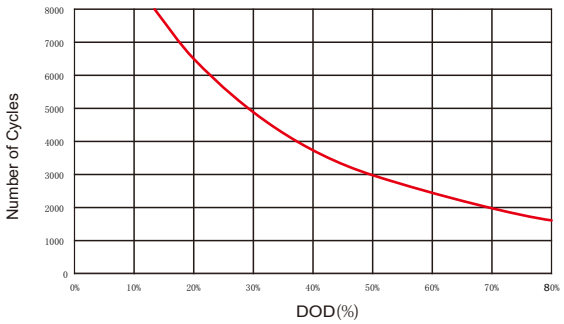
Charge Voltage vs Ambient Temperature Curve



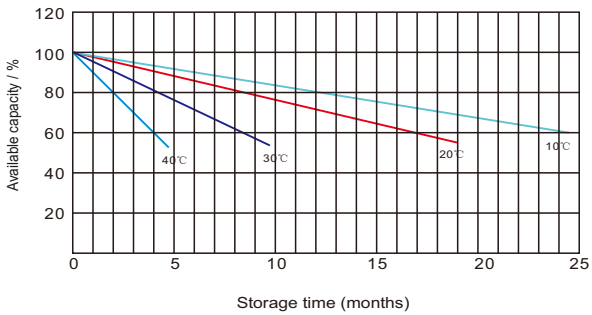
Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics



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