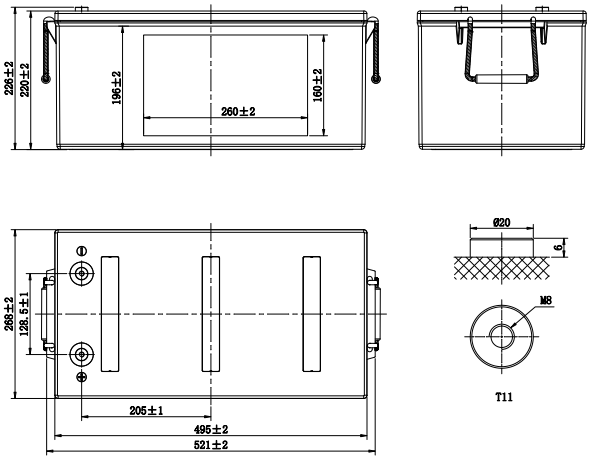
OPzV SERIES-TUBULAR GEL

12V9OPzV200 (12V200Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Cells per Unit		6
Nominal Capacity (25˚C)	C_{10},1.80V/cell	200Ah
Dimension	Length	521mm (20.5inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight		70.0kg (154.3lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB)
Short-circuit current		2500A
Internal Resistance (25˚C)		Approx 4.8 mΩ (Fully charged)
Operating Temp. Range	Discharge	-40~60˚C (-40~140°F)
	Charge	0~50˚C (32~122°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	2.35-2.40V/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	≤2% per month at 25°C (77°F)	
Max.Discharging Current (25˚C)		2000A/5s

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	89.7	60.8	46.7	31.9	22.2	18.7	9.10	4.67	3.15	2.34	2.13
1.80V/cell	101.0	66.8	50.8	34.4	23.8	20.0	9.24	4.73	3.24	2.40	2.18
1.75V/cell	105.0	68.6	51.9	35.1	24.2	20.3	9.42	4.82	3.31	2.46	2.22
1.70V/cell	109.0	70.4	53.0	35.6	24.5	20.5	9.56	4.92	3.42	2.51	2.28
1.67V/cell	112.0	71.9	54.0	36.2	24.8	20.8	9.75	5.07	3.49	2.57	2.33
1.60V/cell	114.0	72.8	54.6	36.5	25.0	20.9	9.93	5.13	3.57	2.64	2.38

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	174.0	118.0	91.2	62.7	44.1	37.3	18.2	9.35	6.33	4.70	4.30
1.80V/cell	194.0	129.0	98.8	67.4	47.1	39.7	18.4	9.46	6.49	4.81	4.38
1.75V/cell	201.0	132.0	101.0	68.5	47.8	40.3	18.8	9.63	6.63	4.93	4.46
1.70V/cell	207.0	135.0	102.0	69.3	48.3	40.7	19.0	9.81	6.83	5.02	4.58
1.67V/cell	212.0	137.0	104.0	70.1	48.7	41.0	19.4	10.1	6.98	5.14	4.67
1.60V/cell	214.0	138.0	104.0	70.6	49.0	41.3	19.7	10.2	7.12	5.28	4.77

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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

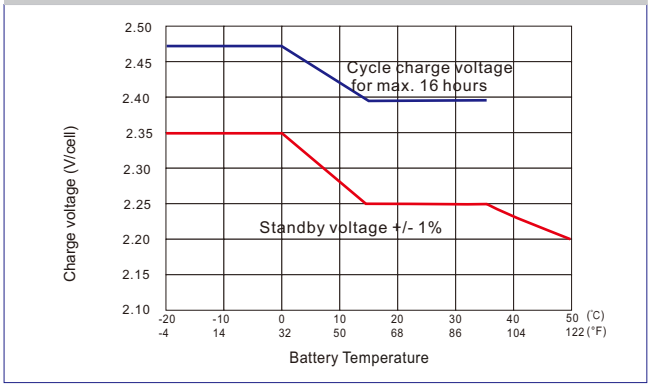
GENERAL FEATURES

- 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 - more than 2000 cycles at 80% Depth of Discharge

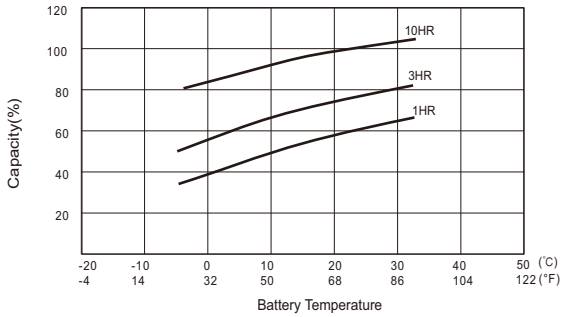
STANDARDS

- 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

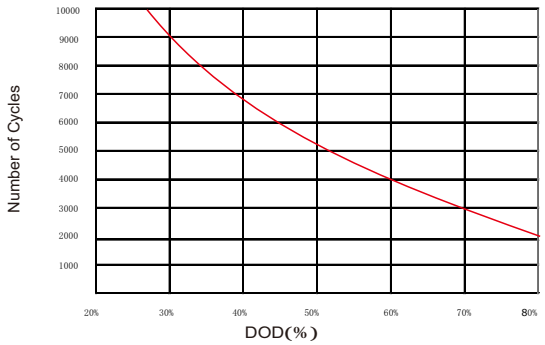
Charge Voltage vs Ambient Temperature Curve



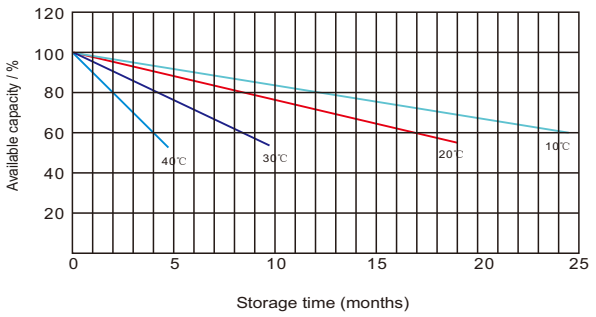
Temperature Effects in Relation to Capacity



Cycle life



Self Discharge Characteristics



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