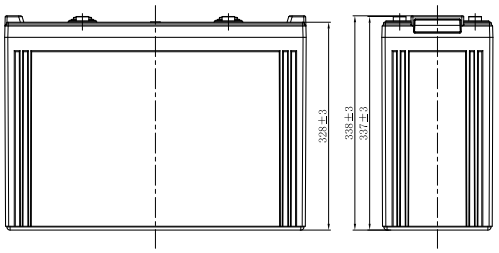
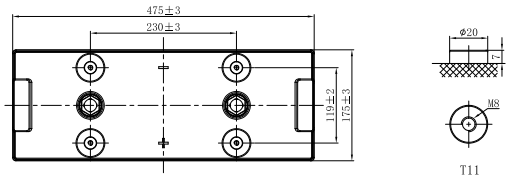
LPG SERIES-GEL BATTERY

LPG2-1000 (2V1000Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25℃)	C_{10},1.80V/cell	1000Ah
Dimension	Length	475mm (18.7inches)
	Width	175mm (6.89inches)
	Container Height	328mm (12.9inches)
	Total Height	338mm (12.9inches)
Approx Weight		64.1kg (141.3lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		9000A
Internal Resistance (25℃)		Approx 0.5 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~60℃ (-4~140°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-20~50℃ (-4~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.25C
Charge voltage (25℃)	Standby Use	Cycle Use
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-5mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	⩽2.5% per month at 25°C (77°F). LPG series batteries may be stored up to 9 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

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	563.0	497.3	460.2	339.4	280.7	231.4	186.1	159.1	136.3	111.3	93.7	50.2
1.80V/cell	629.5	550.4	503.5	370.4	306.4	250.3	200.6	171.4	146.2	119.1	100.0	53.0
1.75V/cell	655.1	570.7	520.4	382.4	316.3	257.0	205.6	175.2	149.3	121.3	101.6	53.7
1.70V/cell	680.0	591.6	538.0	394.9	326.7	264.5	210.8	179.2	152.5	123.4	103.1	54.4
1.67V/cell	695.2	604.0	547.8	401.8	332.4	268.5	213.7	181.5	154.3	124.7	104.0	54.8
1.60V/cell	731.1	633.4	572.2	419.3	346.9	278.4	220.8	187.0	158.6	127.7	106.3	55.7
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	1091.6	966.6	897.3	662.3	547.9	453.6	365.7	313.1	268.8	219.8	185.4	99.9
1.80V/cell	1211.7	1062.5	976.1	719.0	594.8	488.8	392.8	336.3	287.6	234.9	197.6	105.3
1.75V/cell	1251.2	1094.0	1002.7	737.9	610.4	499.7	401.1	342.8	292.8	238.7	200.3	106.6
1.70V/cell	1288.5	1126.4	1030.4	757.9	627.0	511.9	409.8	349.7	298.4	242.4	203.1	107.8
1.67V/cell	1310.9	1144.4	1045.1	768.2	635.5	518.2	414.4	353.2	301.4	244.6	204.7	108.6
1.60V/cell	1364.0	1188.8	1082.7	795.3	657.9	534.1	426.1	362.5	308.6	249.6	208.5	110.4

LPG SERIES-GEL BATTERY

LPG2-1000 (2V1000Ah)

LEOCH BATTERY

APPLICATIONS

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

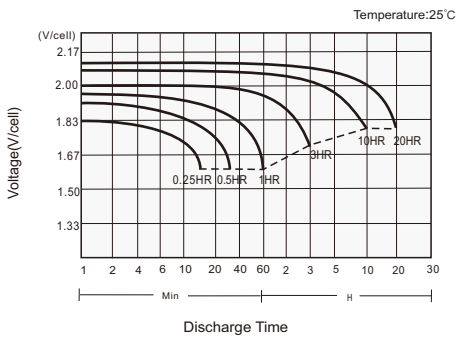
GENERAL FEATURES

- 16 years design life (25℃)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life

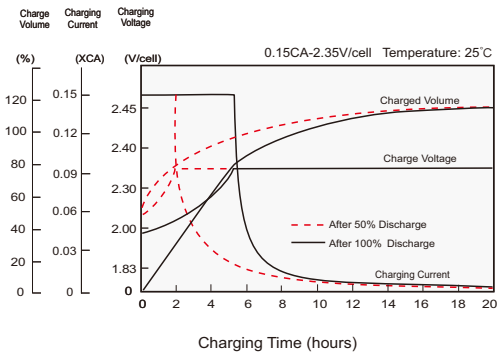
STANDARDS

- IEC60896 Certified
- Classified as"Very Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

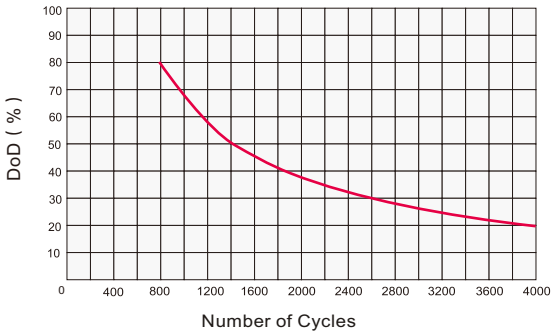
Discharge Characteristics



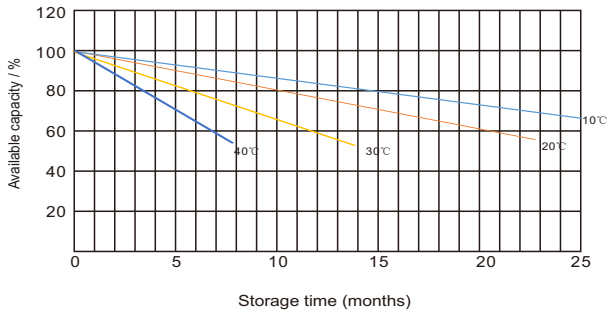
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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