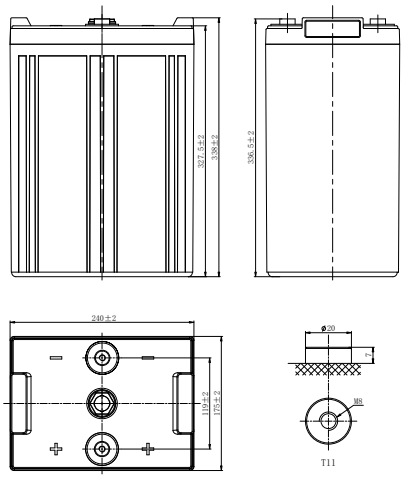
LPG SERIES-GEL BATTERY

LPG2-500 (2V500Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	500Ah
Dimension	Length	240mm (9.45inches)
	Width	175mm (6.89inches)
	Container Height	327.5mm (12.9inches)
	Total Height	338mm (13.3inches)
Approx Weight		31.8kg (70.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		5000A
Internal Resistance (25˚C)		Approx 0.55 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~60˚C (-4~140°F)
	Charge	-20~40˚C (-4~104°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	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/˚C	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	25˚C (77°F)	100%
	0˚C (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	281.5	248.6	230.1	169.7	143.5	115.7	93.0	79.6	68.2	55.6	46.9	25.1
1.80V/cell	314.8	275.2	251.8	185.1	156.5	125.2	100.3	85.7	73.1	59.6	50.0	26.5
1.75V/cell	327.6	285.3	260.3	191.2	161.6	128.5	102.8	87.6	74.6	60.6	50.8	26.8
1.70V/cell	340.0	295.8	269.0	197.5	166.9	132.3	105.4	89.7	76.3	61.7	51.6	27.2
1.67V/cell	347.6	302.0	273.8	200.9	169.8	134.2	106.8	90.7	77.2	62.4	52.0	27.4
1.60V/cell	365.6	316.7	286.0	209.6	177.2	139.2	110.4	93.5	79.3	63.8	53.1	27.9

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	545.8	483.3	448.7	331.2	280.0	226.8	182.8	156.6	134.4	109.9	92.7	49.9
1.80V/cell	605.8	531.3	488.1	359.5	303.9	244.4	196.4	168.1	143.8	117.4	98.8	52.6
1.75V/cell	625.6	547.0	501.4	368.9	311.9	249.8	200.6	171.5	146.4	119.4	100.2	53.3
1.70V/cell	644.3	563.2	515.2	379.0	320.4	256.0	204.9	174.8	149.2	121.2	101.6	53.9
1.67V/cell	655.4	572.2	522.6	384.1	324.8	259.1	207.2	176.6	150.7	122.3	102.4	54.3
1.60V/cell	682.0	594.4	541.4	397.7	336.2	267.1	213.0	181.3	154.3	124.8	104.3	55.2

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LEOCH BATTERY

APPLICATIONS

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

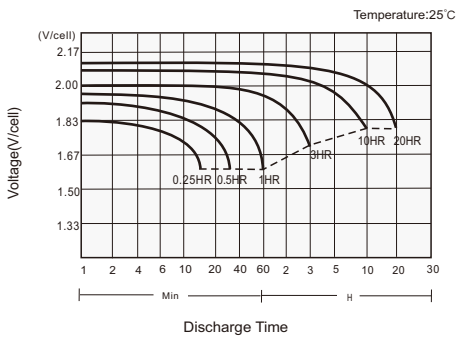
GENERAL FEATURES

- 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

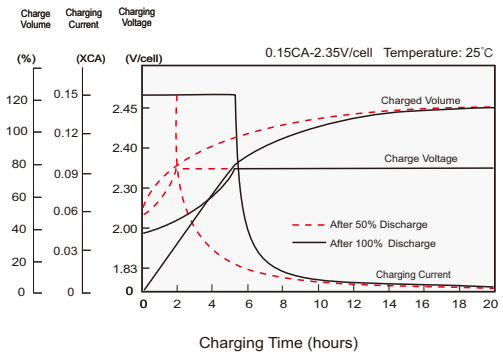
STANDARDS

- 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

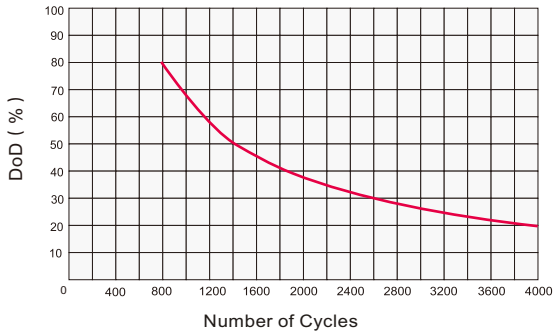
Discharge Characteristics



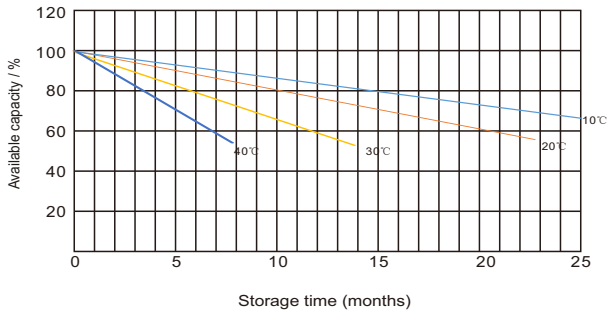
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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