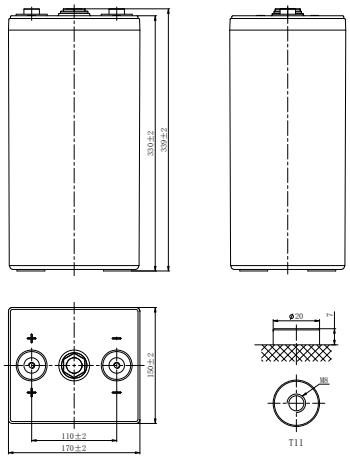
LPG SERIES-GEL BATTERY

LPG2-300 (2V300Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	300Ah
Dimension	Length	170mm (6.69inches)
	Width	150mm (5.91inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight		19.5kg (43.0lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3300A
Internal Resistance (25˚C)		Approx 0.7 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	168.9	149.2	138.1	101.9	87.0	69.4	55.8	47.7	40.9	33.4	28.1	15.1
1.80V/cell	188.9	165.1	151.0	111.1	94.6	75.1	60.2	51.4	43.9	35.7	30.0	15.9
1.75V/cell	196.5	171.2	156.1	114.7	97.6	77.1	61.7	52.5	44.8	36.4	30.5	16.1
1.70V/cell	204.0	177.5	161.4	118.5	100.7	79.4	63.2	53.8	45.8	37.0	30.9	16.3
1.67V/cell	208.6	181.2	164.3	120.6	102.3	80.5	64.1	54.5	46.3	37.4	31.2	16.4
1.60V/cell	219.3	190.0	171.7	125.7	106.6	83.5	66.2	56.1	47.6	38.3	31.9	16.7

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	327.5	290.0	269.2	198.8	170.1	136.1	109.7	93.9	80.6	66.0	55.6	30.0
1.80V/cell	363.5	318.8	292.8	215.7	184.0	146.6	117.8	100.9	86.3	70.5	59.3	31.6
1.75V/cell	375.4	328.2	300.8	221.3	188.7	149.9	120.3	102.8	87.8	71.6	60.1	32.0
1.70V/cell	386.6	337.9	309.2	227.4	193.6	153.6	122.9	104.9	89.5	72.7	60.9	32.3
1.67V/cell	393.3	343.3	313.5	230.5	196.2	155.5	124.3	106.0	90.4	73.4	61.4	32.6
1.60V/cell	409.2	356.6	324.9	238.6	202.9	160.2	127.8	108.7	92.6	74.9	62.6	33.1

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APPLICATIONS

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

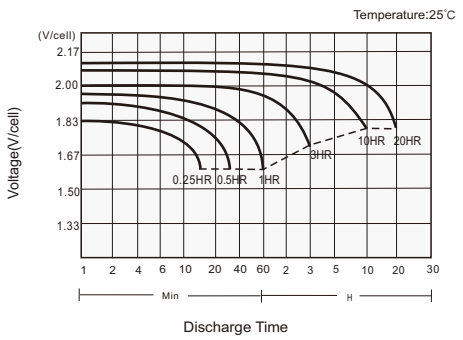
GENERAL FEATURES

- 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

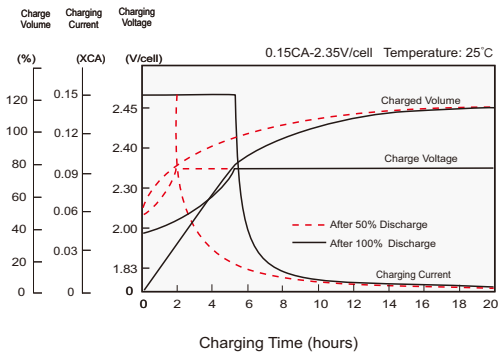
STANDARDS

- 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

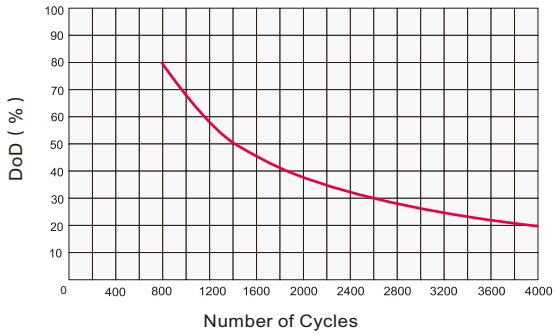
Discharge Characteristics



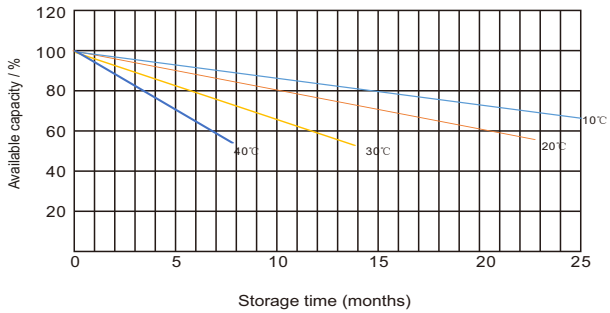
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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