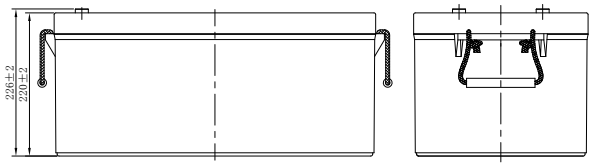
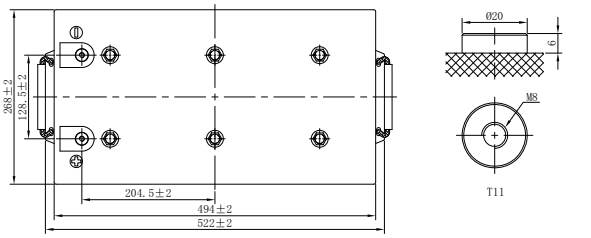
LPG SERIES-GEL BATTERY

LPG12-240 (12V240Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.80V/cell	240Ah
Dimension	Length	522mm (20.6inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight		73.3kg (161.6lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		3840A
Internal Resistance (25˚C)		Approx 4 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	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	302.7	262.4	206.4	186.7	136.5	108.1	83.8	66.8	53.1	43.1	37.5	32.8	26.6	22.5	11.6
1.80V/cell	343.6	297.4	233.3	203.3	144.7	119.6	88.9	73.6	58.3	46.9	39.5	34.7	27.7	23.0	12.0
1.75V/cell	372.6	321.9	251.9	207.4	149.9	134.1	97.4	79.0	60.6	48.3	40.7	35.8	28.2	23.7	12.5
1.70V/cell	389.7	338.2	265.1	208.9	152.2	138.3	99.7	80.5	61.6	48.4	41.3	35.9	28.5	23.8	12.7
1.67V/cell	409.8	351.9	274.4	214.7	155.1	141.0	101.7	82.1	62.5	49.2	41.9	36.4	28.7	23.9	12.8
1.60V/cell	423.9	362.8	281.4	217.8	157.4	145.6	104.4	83.8	63.3	50.0	42.8	37.0	28.9	24.2	13.0
Constant Power Discharge (Watts/cell) at 25°C (77°F)															
F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	569.4	496.9	392.5	356.8	262.5	210.1	163.5	130.6	104.0	84.8	73.8	64.7	52.5	44.6	23.2
1.80V/cell	637.0	555.8	439.1	385.3	276.3	230.9	172.4	143.1	113.8	91.8	77.6	68.2	54.7	45.4	23.8
1.75V/cell	679.8	593.2	468.6	390.2	284.6	257.1	187.5	152.7	117.8	94.2	79.7	70.3	55.5	46.7	24.9
1.70V/cell	698.7	614.8	487.2	393.2	286.7	262.8	190.7	154.7	119.2	94.7	80.4	70.6	55.9	46.8	25.2
1.67V/cell	726.3	633.8	500.7	397.5	290.8	267.1	194.0	157.4	120.6	95.3	81.5	71.1	56.2	47.1	25.4
1.60V/cell	736.5	642.6	507.7	399.2	292.3	273.2	197.4	159.5	121.4	96.5	82.9	71.9	56.5	47.4	25.7

LPG SERIES-GEL BATTERY

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LEOCH BATTERY

APPLICATIONS

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

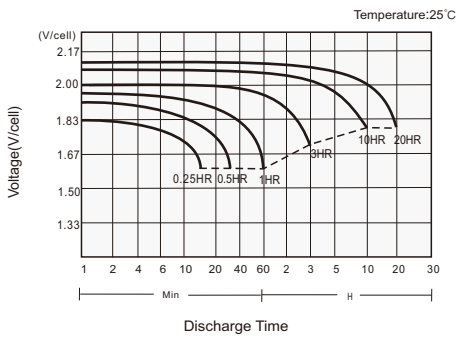
GENERAL FEATURES

- 12 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

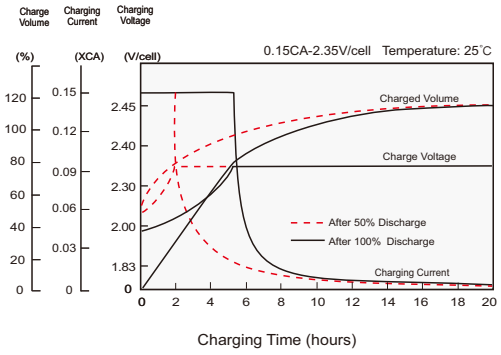
STANDARDS

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

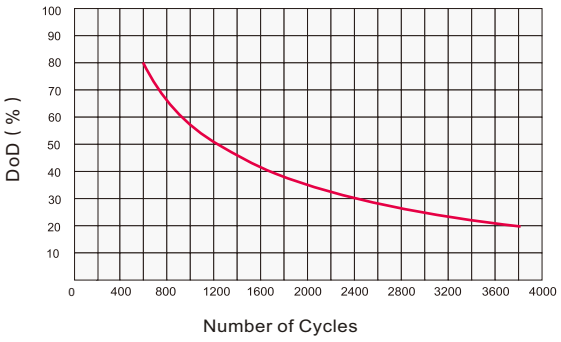
Discharge Characteristics



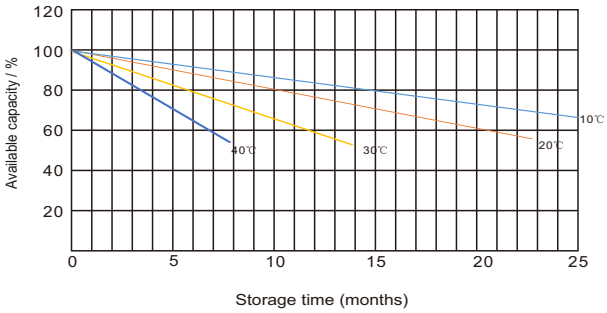
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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