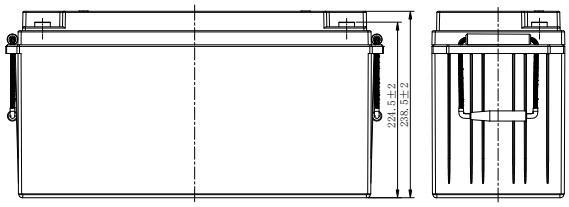
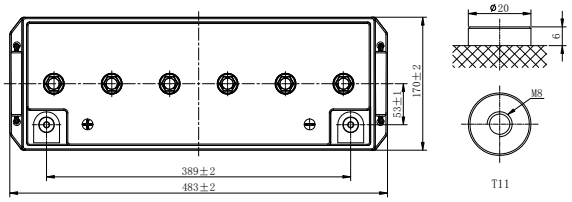
LPG SERIES-GEL BATTERY

LPG12-140 (12V140Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.80V/cell	140Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight		43.8kg (96.6lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2520A
Internal Resistance (25˚C)		Approx 5.3 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	177.7	154.0	121.1	109.6	80.1	63.5	49.2	39.2	31.1	25.3	22.0	19.3	15.6	13.2	6.84
1.80V/cell	201.7	174.6	136.9	119.3	84.9	70.2	52.2	43.2	34.2	27.5	23.2	20.4	16.3	13.5	7.00
1.75V/cell	218.7	189.0	147.8	121.7	88.0	78.7	57.1	46.3	35.6	28.4	23.9	21.1	16.6	13.8	7.36
1.70V/cell	228.8	198.5	155.5	122.6	89.3	81.2	58.5	47.2	36.2	28.5	24.2	21.2	16.7	13.9	7.47
1.67V/cell	240.6	206.6	161.0	126.0	91.0	82.8	59.7	48.2	36.7	28.9	24.6	21.4	16.8	14.0	7.53
1.60V/cell	248.8	213.0	165.2	127.8	92.4	85.4	61.3	49.2	37.1	29.4	25.1	21.7	17.0	14.2	7.63
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	334.2	291.6	230.4	209.4	154.1	123.3	95.7	76.7	61.1	49.7	43.3	38.0	30.8	26.2	13.6
1.80V/cell	373.9	326.2	257.7	226.2	162.2	135.5	101.2	84.0	66.8	53.9	45.5	40.0	32.1	26.7	13.9
1.75V/cell	399.0	348.2	275.1	229.0	167.0	150.9	110.0	89.6	69.1	55.3	46.8	41.3	32.6	27.4	14.6
1.70V/cell	410.1	360.8	286.0	228.4	168.3	154.3	112.0	90.8	70.0	55.2	47.2	41.2	32.8	27.5	14.8
1.67V/cell	426.3	372.0	293.9	233.3	170.7	156.8	113.9	92.4	70.8	56.0	47.8	41.7	33.0	27.6	14.9
1.60V/cell	432.3	377.2	298.0	234.3	171.6	160.4	115.9	93.6	71.2	56.7	48.7	42.2	33.2	27.8	15.1

LPG SERIES-GEL BATTERY

LPG12-140 (12V140Ah)

LEOCH BATTERY

APPLICATIONS

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

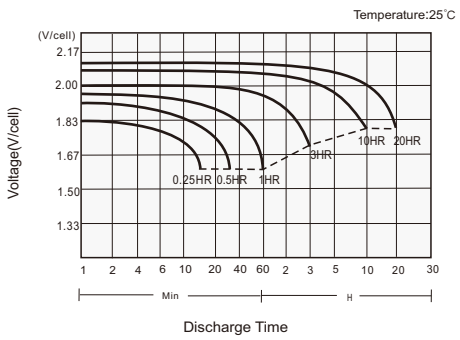
GENERAL FEATURES

- 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

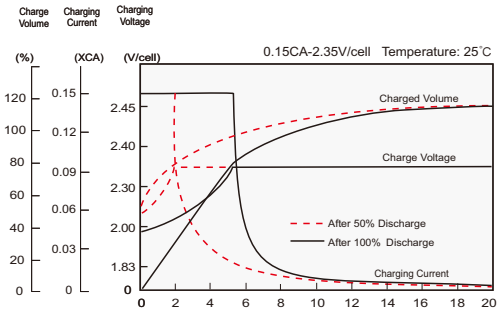
STANDARDS

- 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

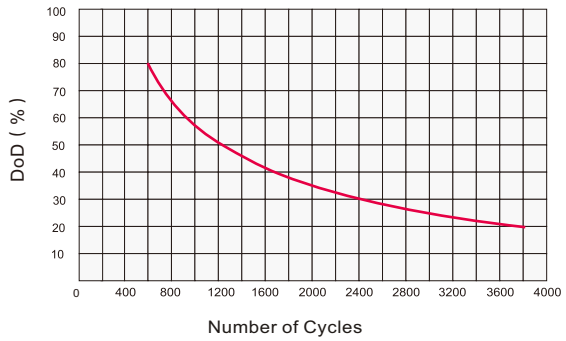
Discharge Characteristics



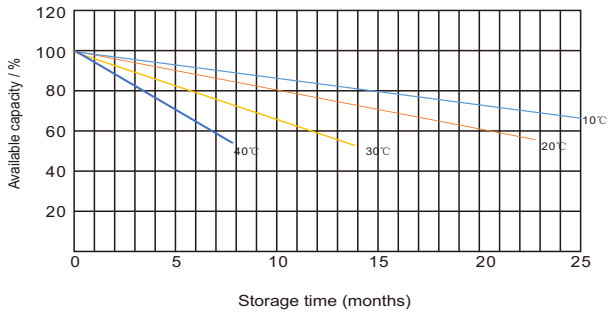
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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