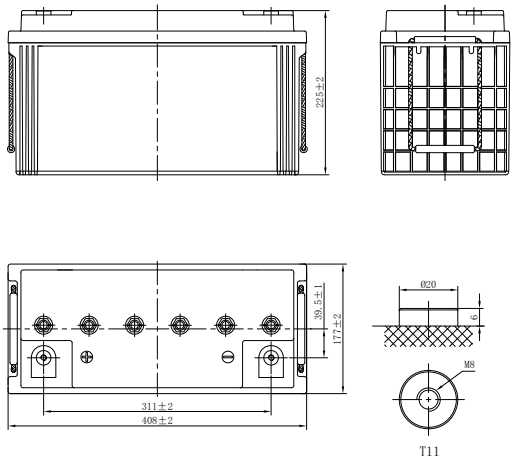
LPG SERIES-GEL BATTERY

LPG12-110 (12V110Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.80V/cell	110Ah
Dimension	Length	408mm (16.1inches)
	Width	177mm (6.97inches)
	Container Height	225mm (8.86inches)
	Total Height	225mm (8.86inches)
Approx Weight		34.5kg (76.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1980A
Internal Resistance (25˚C)		Approx 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	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	123.2	102.5	91.3	76.3	60.9	49.4	36.8	30.5	24.2	19.7	17.1	15.0	12.1	10.3	5.32
1.80V/cell	150.8	123.5	108.3	88.5	69.0	54.6	40.6	33.6	26.6	21.4	18.0	15.8	12.7	10.5	5.50
1.75V/cell	166.6	133.8	115.9	92.6	71.7	61.2	44.4	36.0	27.7	22.1	18.6	16.4	12.9	10.8	5.73
1.70V/cell	182.0	143.8	123.2	96.9	74.3	63.3	46.1	37.5	28.5	22.4	19.1	16.6	13.1	10.9	5.85
1.67V/cell	191.4	149.5	127.5	99.6	75.8	64.4	47.0	38.3	28.9	22.8	19.5	16.9	13.2	11.0	5.93
1.60V/cell	213.5	163.8	138.0	105.6	79.5	66.5	48.0	38.8	29.4	23.2	19.8	17.2	13.4	11.1	5.97
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	229.2	192.7	173.0	145.6	117.2	95.9	71.7	59.6	47.5	38.7	33.7	29.5	24.0	20.4	10.6
1.80V/cell	275.6	228.9	202.8	167.5	131.9	105.4	78.7	65.3	51.9	41.9	35.4	31.1	25.0	20.7	10.9
1.75V/cell	299.3	244.4	214.5	173.5	135.9	117.3	85.6	69.7	53.8	43.0	36.4	32.1	25.3	21.3	11.4
1.70V/cell	321.1	258.9	225.6	179.6	139.8	120.6	88.1	71.9	55.1	43.5	37.2	32.5	25.7	21.5	11.6
1.67V/cell	333.9	266.9	231.8	183.6	141.8	122.0	89.2	72.8	55.4	44.1	37.9	32.8	25.8	21.6	11.7
1.60V/cell	362.8	286.4	246.8	191.7	147.3	124.7	90.6	73.6	56.2	44.4	38.3	33.0	26.0	21.7	11.8

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APPLICATIONS

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

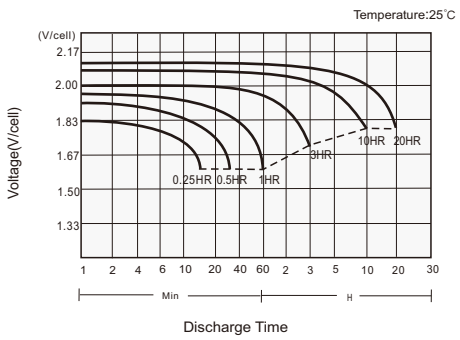
GENERAL FEATURES

- 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

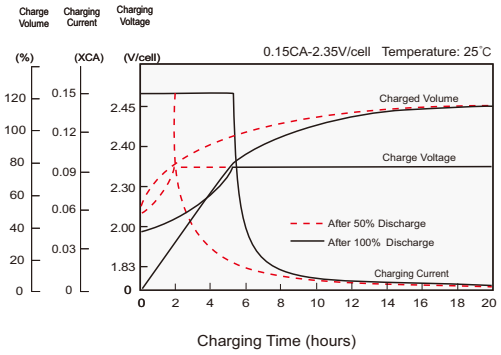
STANDARDS

- 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

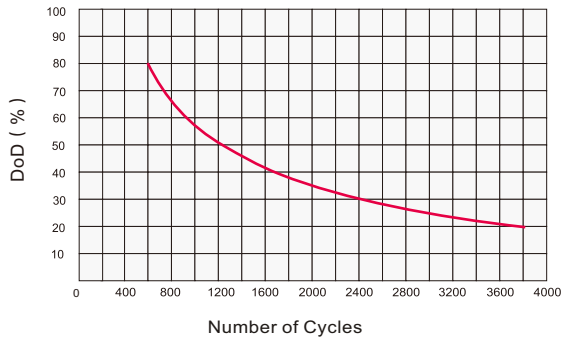
Discharge Characteristics



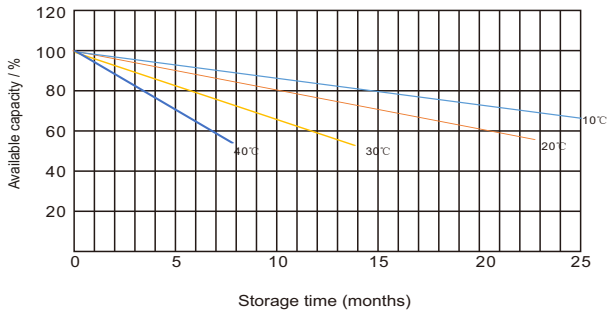
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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