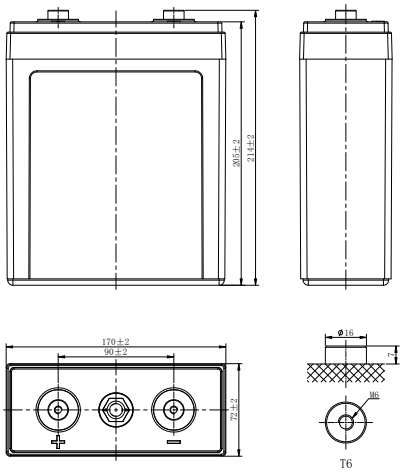
LPG SERIES-GEL BATTERY

LPG2-100 (2V100Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	100Ah
Dimension	Length	170mm (6.69inches)
	Width	72mm (2.83inches)
	Container Height	205mm (8.07inches)
	Total Height	214mm (8.43inches)
Approx Weight		6.00kg (13.2lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1300A
Internal Resistance (25˚C)		Approx 1 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	71.6	57.2	47.0	34.2	29.1	23.1	18.8	16.3	14.3	11.6	9.80	5.06
1.80V/cell	84.1	65.1	52.0	37.8	32.0	25.3	20.4	17.2	15.1	12.1	10.0	5.33
1.75V/cell	88.0	69.2	58.3	41.7	34.3	26.3	21.0	17.7	15.6	12.3	10.2	5.46
1.70V/cell	92.3	72.2	60.7	43.2	35.2	26.7	21.2	18.0	15.7	12.4	10.3	5.52
1.67V/cell	98.3	74.2	61.3	43.7	35.7	27.2	21.6	18.2	15.8	12.5	10.4	5.58
1.60V/cell	104.7	77.6	63.3	44.9	36.4	27.5	21.8	18.6	16.1	12.6	10.5	5.65
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	137.7	110.8	91.4	66.7	56.8	45.2	36.8	32.1	28.1	22.8	19.4	10.1
1.80V/cell	159.3	124.7	100.4	73.2	62.2	49.5	39.9	33.7	29.7	23.8	19.8	10.6
1.75V/cell	165.7	131.7	111.8	80.2	66.4	51.2	41.0	34.6	30.6	24.1	20.3	10.8
1.70V/cell	172.6	136.9	114.7	82.1	67.7	51.9	41.3	35.0	30.8	24.3	20.4	11.0
1.67V/cell	182.3	139.4	116.1	83.0	68.4	52.4	41.5	35.4	30.9	24.5	20.5	11.1
1.60V/cell	193.1	145.0	118.8	84.7	69.4	52.8	42.0	36.1	31.3	24.6	20.6	11.2

LPG SERIES-GEL BATTERY

LPG2-100 (2V100Ah)

LEOCH BATTERY

APPLICATIONS

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

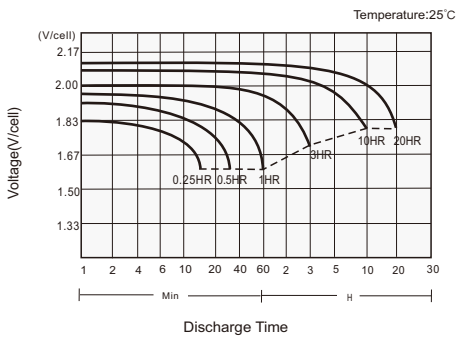
GENERAL FEATURES

- 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

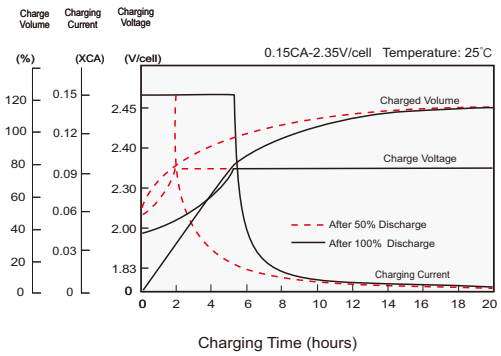
STANDARDS

- 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

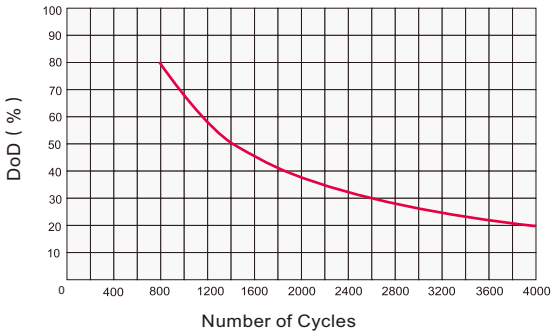
Discharge Characteristics



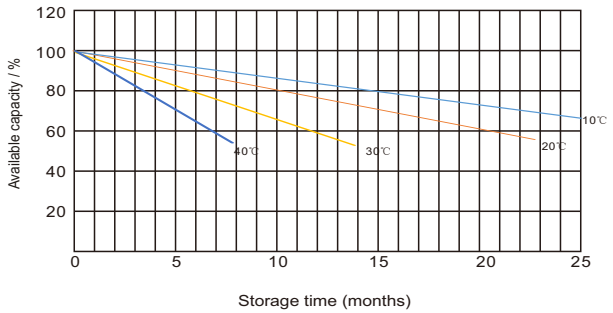
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



Leoch International Technology Ltd.
www.leoch.com

Leoch Batteries Pte Ltd
www.leoch.sg

Leoch Battery Corporation
www.leochamericas.com

Leoch Europe S.A.
www.leoch.eu

Data above is recommended and the picture is only for battery effect display, Leoch reserve the final right of explanation.
© LEOCH. All rights reserved.Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.Subject to revisions without prior notice. E&OE.

Publication No.:LB-LPG2-100-PD-EN-V2.1-20240402