



# LPG Series-Gel Battery

## LPG2-500(2V500Ah)

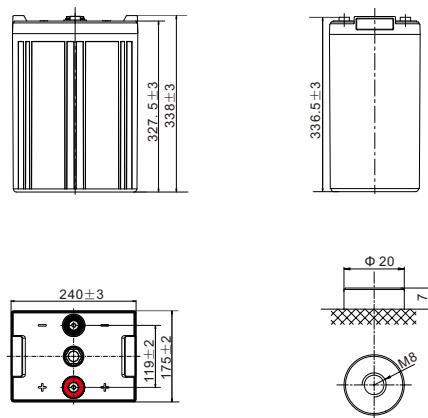


### Specifications

Rated Voltage	2V	
Nominal Capacity	500.0Ah (C <sub>10</sub> , 1.80V/cell)	
Dimension	Length	240±3mm (9.45 inches)
	Width	175±2mm (6.89 inches)
	Container Height	327.5±3mm (12.9 inches)
	Total Height	338±3mm (13.3 inches)
Approx Weight	32.8 Kg (72.3 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	530.0 Ah	C20(26.5A, 1.80V/cell)
	500.0 Ah	C10(50.0A, 1.80V/cell)
	429.5 Ah	C5(85.9A, 1.75V/cell)
	385.5 Ah	C3(128.5A, 1.75V/cell)
	236.4 Ah	C1(236.4A, 1.60V/cell)
Max. Discharge Current	4000A (5s)	
Internal Resistance (25°C)	Approx 0.55mΩ	
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)	
Cycle Use	Initial Charging Current less than 125.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 125.0A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LPG series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Layout



### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	480.0	424.6	350.8	281.5	248.6	190.2	152.6	115.7	93.0	78.0	68.2	55.6	46.9	25.1
1.80V/cell	558.2	489.2	396.6	314.8	275.2	208.1	166.0	125.2	100.3	84.0	73.1	59.6	50.0	26.5
1.75V/cell	590.5	513.4	414.5	327.6	285.3	215.1	171.1	128.5	102.8	85.9	74.6	60.6	50.8	26.8
1.70V/cell	624.1	540.2	432.8	340.0	295.8	222.3	176.6	132.3	105.4	87.9	76.3	61.7	51.6	27.2
1.67V/cell	643.8	555.5	443.7	347.6	302.0	226.3	179.5	134.2	106.8	88.9	77.2	62.4	52.0	27.4
1.60V/cell	690.0	591.5	468.8	365.6	316.7	236.4	187.0	139.2	110.4	91.7	79.3	63.8	53.1	27.9

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	922.2	818.1	678.0	545.8	483.3	370.8	298.3	226.8	182.8	153.5	134.4	109.9	92.7	49.9
1.80V/cell	1061.3	933.6	760.1	605.8	531.3	403.4	322.9	244.4	196.4	164.8	143.8	117.4	98.8	52.6
1.75V/cell	1111.0	970.1	787.7	625.6	547.0	414.4	330.9	249.8	200.6	168.1	146.4	119.4	100.2	53.3
1.70V/cell	1161.0	1010.7	814.9	644.3	563.2	425.8	339.7	256.0	204.9	171.4	149.2	121.2	101.6	53.9
1.67V/cell	1189.6	1032.8	831.1	655.4	572.2	431.9	344.2	259.1	207.2	173.1	150.7	122.3	102.4	54.3
1.60V/cell	1252.6	1082.5	866.7	682.0	594.4	447.4	355.9	267.1	213.0	177.7	154.3	124.8	104.3	55.2



# LPG Series-Gel Battery

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### Applications

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

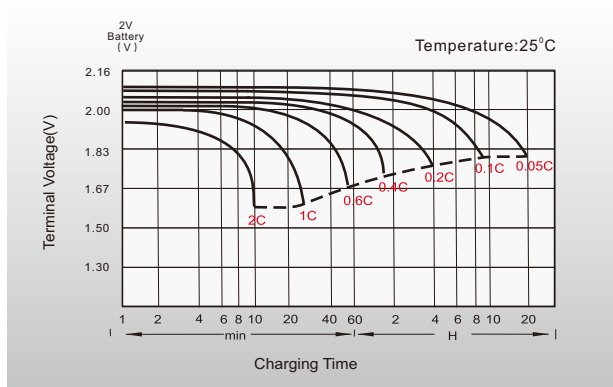
### General Features

- Battery design life up to 16 years
- Special plate design guarantees battery floating life more than 4000 times
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Little water losing, and no electrolyte stratification phenomenon

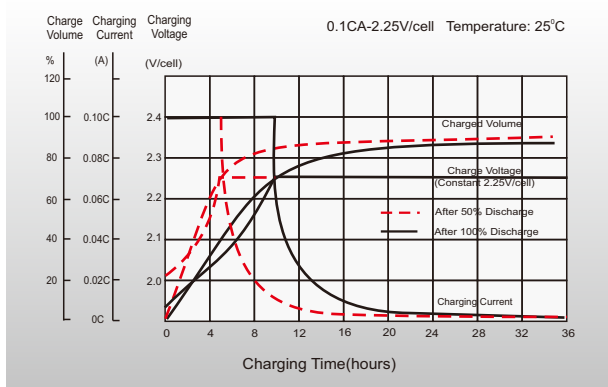
### Standards

- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch@ IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

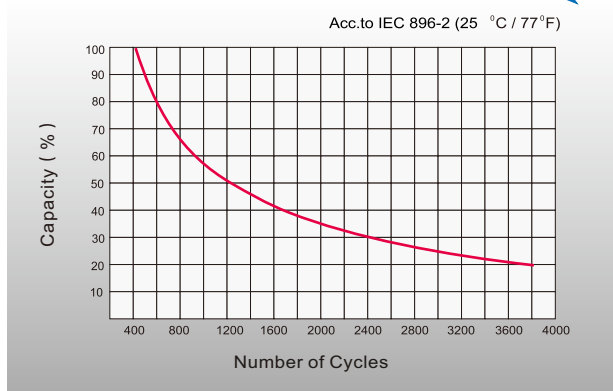
### Discharge Characteristics



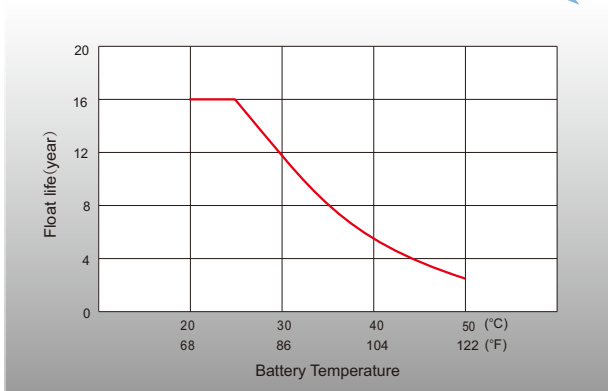
### Float Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Effect of Temperature on Long Term Float Life



### Sales Offices Worldwide

#### China Sales Office

5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com

#### HongKong Sales Office

Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road,  
Tsuen Wan, New Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

#### Singapore Sales Office

No. 1 Tech Park Crescent,  
Singapore 638131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@Leoch.com

#### Australia Sales Office

2 /29 Tarlington Place, Smithfield, NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

#### North America Sales Office

19751 Descartes  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us

#### UK Sales Office

9B Wheatstone Court, Waterwells, Business Park,  
Gloucester, GL2-2AQ, UK United Kingdom  
Tel: +44(0) 1452 729428 / 1452 729696  
Fax: +44 1452 690125  
E-mail: Sales.Europe@leoch.com

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com

#### India Sales Office

Shed no.A-53(b), 2nd Stage of Peenya Industrial Area,  
Bangalore North Taluk, Bangalore-560058, India  
Tel: +91-80-23440018/23440019  
Fax: +91-80-23440017  
E-mail: indiasales@leoch.com