



# LPG Series-Gel Battery

## LPG2-300(2V300Ah)

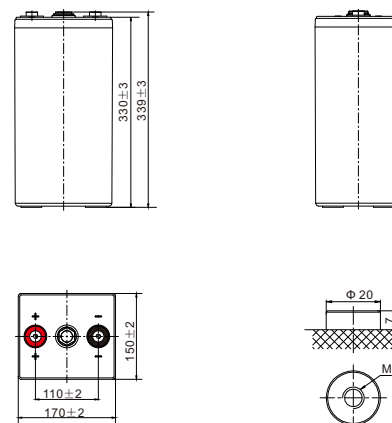


### Specifications

Rated Voltage	2V	
Nominal Capacity	300.0Ah (C <sub>10</sub> , 1.80V/cell)	
Dimension	Length	170±2mm (6.69 inches)
	Width	150±2mm (5.91 inches)
	Container Height	330±3mm (13.0 inches)
	Total Height	339±3mm (13.3 inches)
Approx Weight	19.1 Kg (42.1 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	318.0 Ah	C20(15.9A, 1.80V/cell)
	300.0 Ah	C10(30.0A, 1.80V/cell)
	257.5 Ah	C5(51.5A, 1.75V/cell)
	231.3 Ah	C3(77.1A, 1.75V/cell)
	141.9 Ah	C1(141.9A, 1.60V/cell)
Max. Discharge Current	2400A (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 75.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 75.0A. 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	288.0	254.8	210.5	168.9	149.2	114.1	91.6	69.4	55.8	46.8	40.9	33.4	28.1	15.1
1.80V/cell	334.9	293.5	238.0	188.9	165.1	124.8	99.6	75.1	60.2	50.4	43.9	35.7	30.0	15.9
1.75V/cell	354.3	308.0	248.7	196.5	171.2	129.0	102.7	77.1	61.7	51.5	44.8	36.4	30.5	16.1
1.70V/cell	374.5	324.1	259.7	204.0	177.5	133.4	106.0	79.4	63.2	52.7	45.8	37.0	30.9	16.3
1.67V/cell	386.3	333.3	266.2	208.6	181.2	135.8	107.7	80.5	64.1	53.4	46.3	37.4	31.2	16.4
1.60V/cell	414.0	354.9	281.3	219.3	190.0	141.9	112.2	83.5	66.2	55.0	47.6	38.3	31.9	16.7

### 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	553.3	490.8	406.8	327.5	290.0	222.5	179.0	136.1	109.7	92.1	80.6	66.0	55.6	30.0
1.80V/cell	636.8	560.1	456.0	363.5	318.8	242.0	193.7	146.6	117.8	98.9	86.3	70.5	59.3	31.6
1.75V/cell	666.6	582.1	472.6	375.4	328.2	248.6	198.6	149.9	120.3	100.8	87.8	71.6	60.1	32.0
1.70V/cell	696.6	606.4	489.0	386.6	337.9	255.5	203.8	153.6	122.9	102.8	89.5	72.7	60.9	32.3
1.67V/cell	713.8	619.7	498.6	393.3	343.3	259.1	206.5	155.5	124.3	103.9	90.4	73.4	61.4	32.6
1.60V/cell	751.6	649.5	520.0	409.2	356.6	268.5	213.6	160.2	127.8	106.6	92.6	74.9	62.6	33.1



# LPG Series-Gel Battery

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### Applications

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

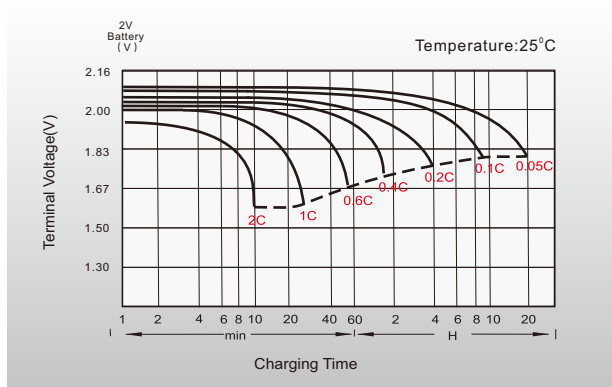
### General Features

- 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

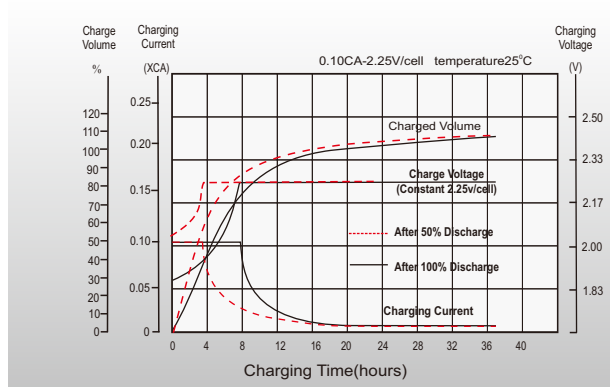
### Standards

- 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

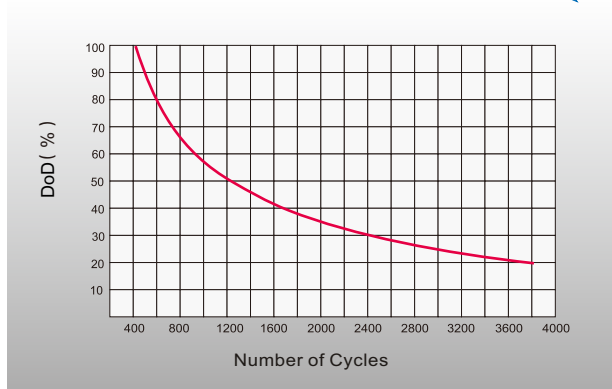
### Discharge Characteristics



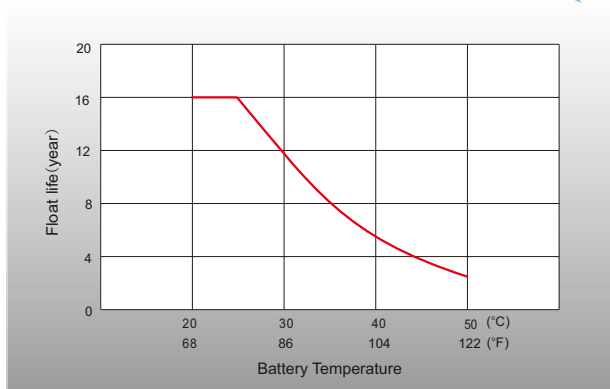
### Float Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Effect of Temperature on Long Term Float Life



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