

# LPG SERIES-GEL Battery

## LPG2-800 (2V800AH)

### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	800.0AH	
Dimension	Length	410±3mm (16.14 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height (with Terminal)	340±3mm (13.39 inches)
Approx Weight	Approx 50.6 kg (111.57lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	854.0 AH/42.7A	(20hr, 1.80V/cell, 25°C/77°F)
	800.0 AH/80.0A	(10hr, 1.75V/cell, 25°C/77°F)
	688.0 AH/137.6A	(5hr, 1.75V/cell, 25°C/77°F)
	598.5 AH/199.5A	(3hr, 1.75V/cell, 25°C/77°F)
	469.3 AH/469.3A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	5600A (5s)	
Internal Resistance	Approx 0.6mΩ	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°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 200.0A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LPG series batteries may be stored for 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.	



### Applications

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats



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

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	696.0	547.2	417.1	362.4	231.2	176.3	146.0	126.1	108.8	96.3	86.9	79.4	75.1	40.96
1.80V/cell	799.2	611.2	460.8	400.0	250.4	188.8	154.8	132.5	114.3	100.8	91.1	83.6	78.5	42.70
1.75V/cell	897.6	672.0	497.1	427.2	265.2	199.5	162.2	137.6	118.3	104.5	94.0	86.0	80.0	43.55
1.70V/cell	\	720.0	528.0	452.8	281.2	207.7	167.4	141.8	122.4	107.9	96.8	88.3	81.9	44.15
1.67V/cell	\	748.8	547.2	469.3	288.4	214.4	171.6	144.8	124.4	109.5	98.2	89.5	82.9	44.56
1.60V/cell	\	800.0	587.7	498.4	300.0	222.9	178.0	149.3	127.5	111.8	100.0	91.4	84.5	45.19

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

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1321.7	1046.2	802.4	700.2	448.3	342.7	285.0	247.0	213.9	189.9	171.6	156.9	148.7	81.1
1.80V/cell	1497.7	1157.6	878.3	768.8	483.0	365.7	300.9	258.6	223.8	198.0	179.4	164.8	155.0	84.4
1.75V/cell	1663.3	1258.7	939.0	816.8	510.2	385.6	314.3	267.4	230.9	204.6	184.7	169.5	157.8	86.0
1.70V/cell	\	1339.2	993.7	862.6	538.5	400.3	323.6	274.9	238.6	211.0	189.9	173.7	161.5	87.1
1.67V/cell	\	1374.0	1020.5	887.0	549.4	411.4	330.7	279.8	241.7	213.5	192.2	175.7	163.1	87.8
1.60V/cell	\	1458.4	1090.2	937.0	568.8	425.8	341.9	287.5	246.9	217.4	195.3	179.1	166.0	88.9

