



LPG Series-Gel Battery

LPG2-800(2V800Ah)

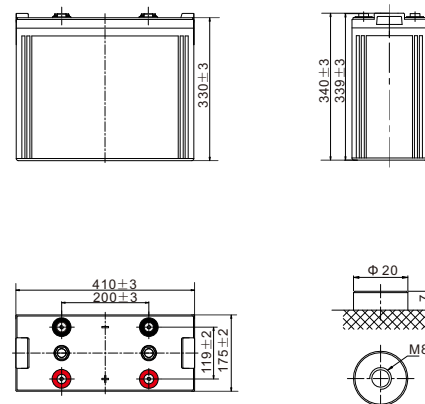


Specifications

Rated Voltage	2V	
Nominal Capacity	800.0Ah (C ₁₀ , 1.80V/cell)	
Dimension	Length	410±3mm (16.1 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (13.0 inches)
	Total Height	340±3mm (13.4 inches)
Approx Weight	50.6 Kg (111.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	848.0 Ah	C20(42.4A, 1.80V/cell)
	800.0 Ah	C10(80.0A, 1.80V/cell)
	687.0 Ah	C5(137.4A, 1.75V/cell)
	616.8 Ah	C3(205.6A, 1.75V/cell)
	378.3 Ah	C1(378.3A, 1.60V/cell)
Max. Discharge Current	6400A (5s)	
Internal Resistance (25°C)	Approx 0.60mΩ	
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 200.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 200.0A. 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	768.1	679.3	561.3	450.4	397.8	304.3	244.2	185.1	148.9	124.8	109.1	89.0	75.0	40.2
1.80V/cell	893.2	782.8	634.5	503.6	440.3	332.9	265.7	200.3	160.5	134.4	117.0	95.3	80.0	42.4
1.75V/cell	944.8	821.4	663.2	524.1	456.5	344.1	273.8	205.6	164.5	137.4	119.4	97.0	81.2	42.9
1.70V/cell	998.6	864.4	692.4	544.0	473.3	355.7	282.5	211.6	168.6	140.6	122.0	98.8	82.5	43.5
1.67V/cell	1030.0	888.8	709.9	556.2	483.2	362.1	287.3	214.8	171.0	142.3	123.5	99.8	83.2	43.8
1.60V/cell	1104.0	946.4	750.0	584.9	506.7	378.3	299.2	222.7	176.6	146.7	126.9	102.1	85.0	44.6

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	1475.6	1308.9	1084.8	873.3	773.3	593.2	477.2	362.9	292.5	245.6	215.0	175.9	148.4	79.9
1.80V/cell	1698.0	1493.7	1216.1	969.3	850.0	645.4	516.6	391.0	314.2	263.7	230.1	187.9	158.1	84.2
1.75V/cell	1777.6	1552.2	1260.3	1001.0	875.2	663.0	529.5	399.7	320.9	268.9	234.2	191.0	160.3	85.2
1.70V/cell	1857.5	1617.2	1303.9	1030.8	901.1	681.3	543.6	409.5	327.8	274.2	238.7	193.9	162.5	86.2
1.67V/cell	1903.4	1652.4	1329.7	1048.7	915.5	691.0	550.7	414.6	331.5	277.0	241.1	195.7	163.8	86.8
1.60V/cell	2004.2	1732.0	1386.8	1091.2	951.0	715.9	569.5	427.3	340.8	284.3	246.8	199.7	166.8	88.3



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Applications

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

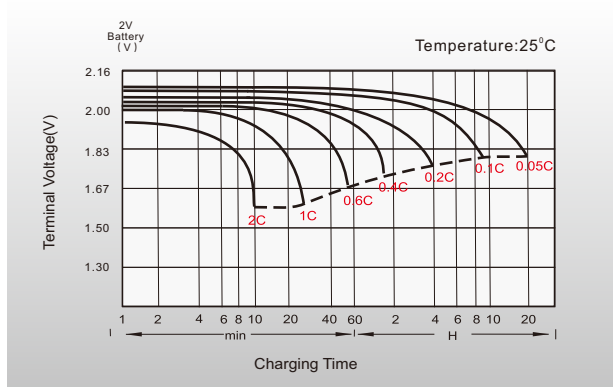
General Features

- 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

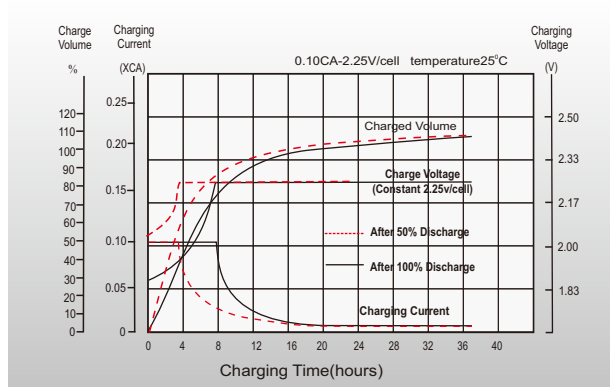
Standards

- 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

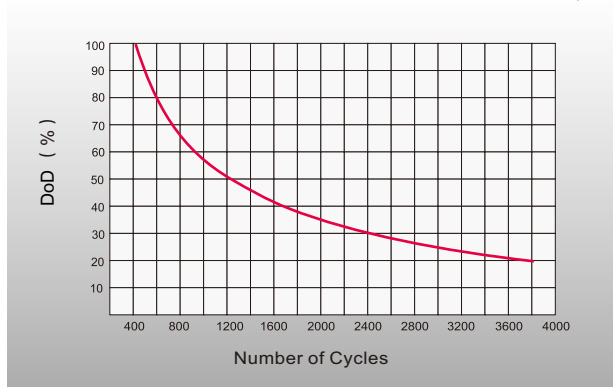
Discharge Characteristics



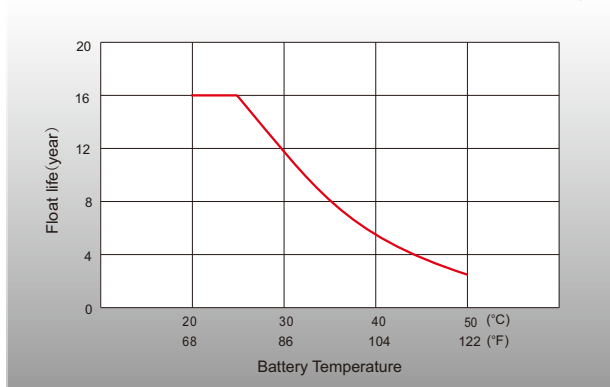
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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