



# LPGS Series-Gel Battery

## LPGS2-200(2V200Ah)

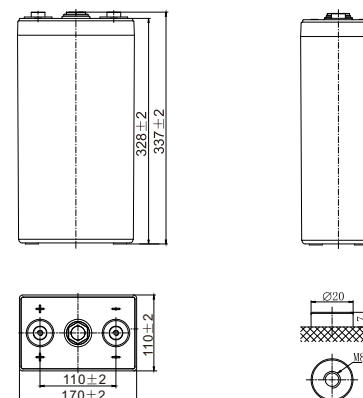


### Specifications

Rated Voltage	2V	
Nominal Capacity	200.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	110±2mm (4.33 inches)
	Container Height	328±2mm (12.9 inches)
	Total Height	348±2mm (13.7 inches)
Approx Weight	13.6 Kg (30.0 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	208.0 Ah	(20hr, 10.4A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	171.5 Ah	(5hr, 34.3A, 1.75V/cell)
	151.2 Ah	(3hr, 50.4A, 1.75V/cell)
	104.1 Ah	(1hr, 104.1A, 1.67V/cell)
Max. Discharge Current	1600A (5s)	
Internal Resistance (25°C)	Approx 0.90mΩ	
Operating Temp. Range	Discharge : -20 ~ 55°C (-4 ~ 131°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 50.0A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 50.0A. Voltage 2.25V~2.30V 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	LPGS 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	226.8	200.0	180.0	148.9	118.1	95.4	59.4	47.7	37.7	32.4	27.8	22.4	19.1	10.1
1.80V/cell	268.2	227.2	200.4	159.8	124.2	100.1	62.7	50.2	39.4	34.0	29.0	23.2	20.0	10.4
1.75V/cell	302.4	249.6	216.0	169.2	130.6	100.8	65.2	50.4	40.7	34.3	29.7	23.7	20.2	10.5
1.70V/cell	324.6	266.4	231.0	177.5	134.8	101.4	67.2	50.9	41.6	34.5	30.2	24.0	20.3	10.6
1.67V/cell	336.7	273.6	231.0	181.9	138.5	104.1	68.2	51.3	42.0	34.8	30.5	24.2	20.4	10.7
1.60V/cell	362.5	289.2	247.0	189.5	143.4	108.0	70.0	51.8	42.8	35.3	30.9	24.5	20.8	10.8

### 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	426.4	378.4	342.1	284.6	227.1	184.3	115.3	92.9	73.8	63.7	54.7	44.3	37.8	20.1
1.80V/cell	496.1	423.8	376.4	302.7	237.0	192.3	121.1	97.1	76.8	66.6	56.9	45.8	39.6	20.5
1.75V/cell	550.7	459.0	401.1	317.6	247.4	193.0	125.6	97.6	79.1	66.8	58.1	46.6	39.9	20.8
1.70V/cell	582.1	484.4	424.8	330.7	254.0	193.4	128.8	98.0	80.6	67.1	59.0	47.3	40.1	21.0
1.67V/cell	597.5	492.9	421.3	335.9	259.3	197.4	130.3	98.2	81.2	67.3	59.4	47.5	40.3	21.1
1.60V/cell	627.7	510.6	444.1	346.4	266.1	203.1	132.9	99.2	82.3	68.1	60.1	48.0	40.9	21.3



# LPGS Series-Gel Battery

## LPGS2-200(2V200Ah)



### Applications

- Telecommunications
- Uninterruptable Power System
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.

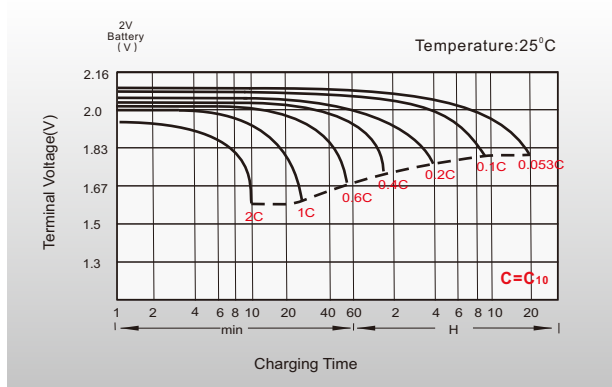
### General Features

- Adopted advantage AGM-GEL technology
- Operation temperature -20 55°C
- ≤3% Self discharge @25°C

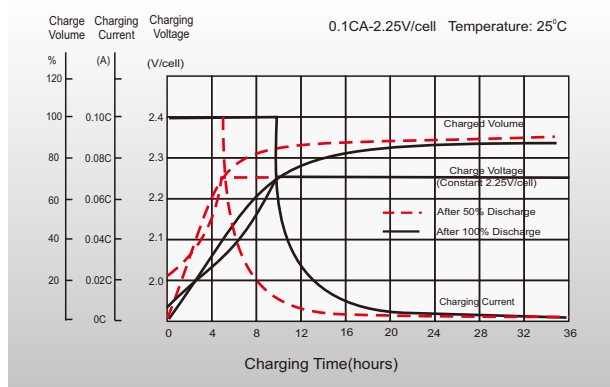
### Standards

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

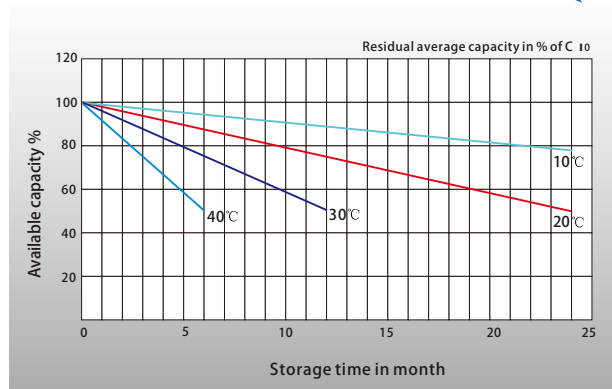
### Discharge Characteristics



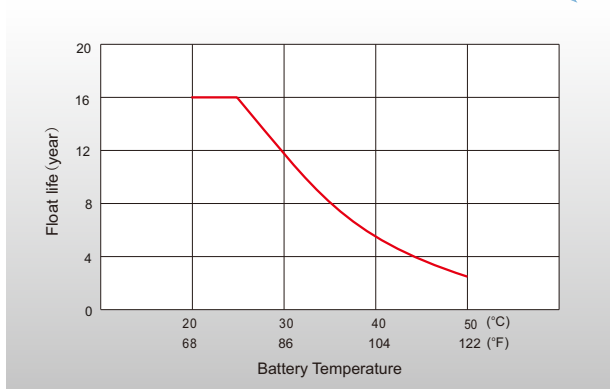
### Float Charging Characteristics



### General Relation of Capacity VS. Storage Time



### Effect of Temperature on Long Term Float Life



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