



LPGS Series-Gel Battery

LPGS2-1000(2V1000Ah)

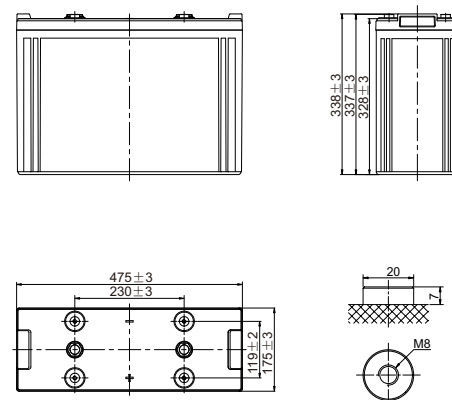


Specifications

Rated Voltage	2V	
Nominal Capacity	1000.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	475±3mm (18.7 inches)
	Width	175±3mm (6.89 inches)
	Container Height	328±3mm (12.9 inches)
	Total Height	350±3mm (13.8 inches)
Approx Weight	60.4 Kg (133.2 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	1036.0 Ah	(20hr, 51.8A, 1.80V/cell)
	1000.0 Ah	(10hr, 100.0A, 1.80V/cell)
	857.5 Ah	(5hr, 171.5A, 1.75V/cell)
	756.3 Ah	(3hr, 252.1A, 1.75V/cell)
	520.7 Ah	(1hr, 520.7A, 1.67V/cell)
Max. Discharge Current	8000A (5s)	
Internal Resistance (25°C)	Approx 0.45mΩ	
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 250.0A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 250.0A. 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	1134.0	1000.1	900.1	744.5	590.4	477.2	296.9	238.7	188.5	162.1	138.8	111.8	95.3	50.7
1.80V/cell	1340.8	1136.0	1002.0	798.9	621.1	500.7	313.3	251.0	197.0	170.2	145.0	116.2	100.0	51.8
1.75V/cell	1512.1	1248.1	1080.1	846.0	653.1	504.2	326.2	252.1	203.5	171.5	148.5	118.3	100.8	52.5
1.70V/cell	1623.1	1332.0	1155.2	887.7	674.2	507.0	335.8	254.5	208.1	172.7	151.0	120.2	101.5	53.2
1.67V/cell	1683.5	1368.2	1155.2	909.3	692.5	520.7	340.9	256.3	210.2	173.8	152.3	121.0	102.2	53.3
1.60V/cell	1812.4	1446.2	1235.0	947.4	716.9	540.2	350.1	259.0	214.0	176.5	154.7	122.7	103.8	54.0

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	2132.0	1892.1	1710.6	1423.1	1135.4	921.7	576.5	464.6	368.8	318.5	273.5	221.3	189.2	100.5
1.80V/cell	2480.4	2118.9	1882.0	1513.7	1185.0	961.4	605.3	485.3	383.8	332.8	284.7	229.2	198.0	102.7
1.75V/cell	2753.4	2295.2	2005.4	1588.0	1236.8	964.8	628.2	488.2	395.6	334.0	290.5	233.0	199.3	104.2
1.70V/cell	2910.6	2421.9	2124.0	1653.5	1270.2	966.8	643.9	489.8	402.8	335.3	295.2	236.3	200.7	105.2
1.67V/cell	2987.5	2464.3	2106.4	1679.4	1296.7	987.1	651.3	491.2	406.2	336.6	297.0	237.5	201.7	105.5
1.60V/cell	3138.6	2553.2	2220.6	1732.0	1330.7	1015.6	664.4	496.2	411.6	340.7	300.5	240.2	204.7	106.7



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Applications

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

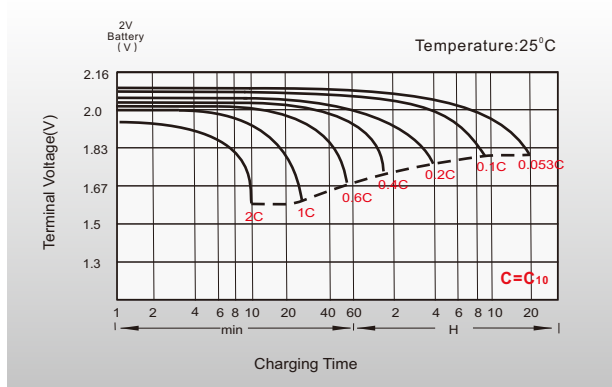
General Features

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

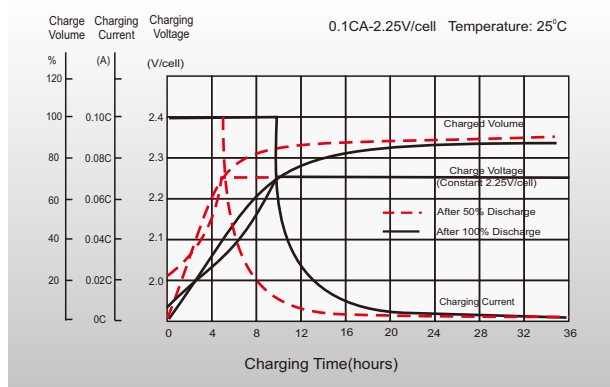
Standards

- 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

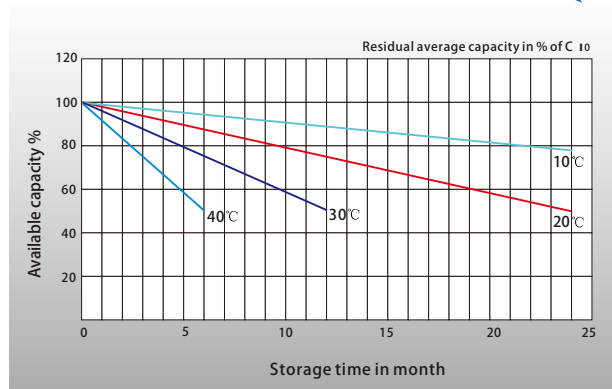
Discharge Characteristics



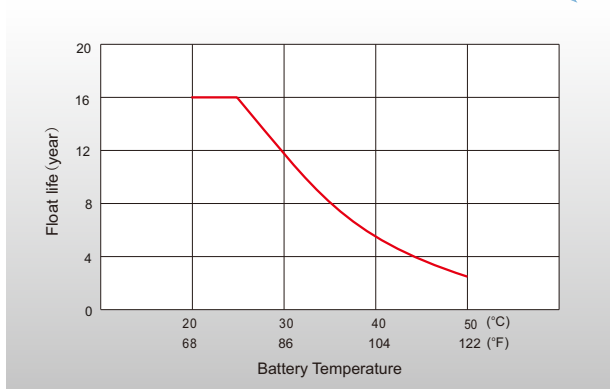
Float Charging Characteristics



General Relation of Capacity VS. Storage Time



Effect of Temperature on Long Term Float Life



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