



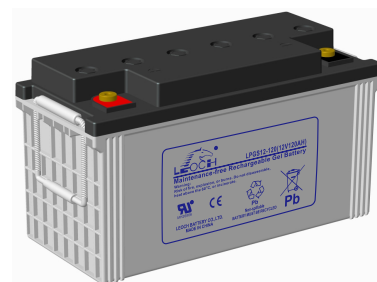
LPGS Series-Gel Battery

LPGS12-120(12V120Ah)

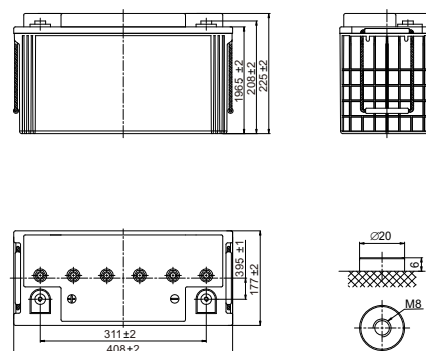


Specifications

Rated Voltage	12V	
Nominal Capacity	120Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	408±2mm (16.1 inches)
	Width	177±2mm (6.97 inches)
	Container Height	225±2mm (8.86 inches)
	Total Height	225±2mm (8.86 inches)
Approx Weight	34.3 Kg (75.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	123.6 Ah	(20hr, 6.18A, 1.80V/cell)
	120.0 Ah	(10hr, 12.0A, 1.80V/cell)
	102.0 Ah	(5hr, 20.4A, 1.75V/cell)
	88.5 Ah	(3hr, 29.5A, 1.75V/cell)
	68.3 Ah	(1hr, 68.3A, 1.65V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 4.0mΩ	
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 30.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 30.0A. Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	193.5	152.1	129.3	108.2	85.5	64.9	53.7	34.2	26.5	21.8	18.5	16.1	13.1	11.1	6.00
1.80V/cell	255.9	191.5	154.0	126.0	98.4	73.7	59.8	37.1	28.5	23.2	19.9	17.3	14.0	12.0	6.18
1.75V/cell	294.5	214.8	171.7	138.4	104.9	77.9	63.2	38.9	29.5	24.0	20.4	17.8	14.3	12.1	6.24
1.70V/cell	328.1	236.8	185.5	147.1	110.6	81.8	66.0	40.8	30.6	24.7	21.0	18.2	14.4	12.2	6.36
1.65V/cell	358.3	253.1	195.3	154.8	115.9	84.3	68.3	41.9	31.7	25.5	21.4	18.6	14.7	12.3	6.42
1.60V/cell	398.4	277.1	210.6	166.2	123.1	89.1	71.6	43.5	32.8	26.0	21.8	19.0	14.9	12.5	6.48

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	356.4	283.1	243.2	205.5	163.8	125.4	104.1	66.5	51.9	42.8	36.4	31.9	26.0	22.1	11.9
1.80V/cell	466.9	352.6	285.9	236.1	186.2	141.2	115.2	71.9	55.5	45.3	39.0	34.1	27.7	23.8	12.3
1.75V/cell	525.4	388.8	314.6	256.5	196.8	148.1	121.3	75.1	57.3	46.7	39.9	34.9	28.1	24.0	12.4
1.70V/cell	568.2	418.3	334.5	270.2	206.1	154.6	126.1	78.5	59.1	48.0	40.8	35.6	28.4	24.1	12.6
1.65V/cell	610.5	442.1	348.9	281.6	213.9	158.0	129.7	80.2	61.0	49.2	41.6	36.2	28.8	24.3	12.7
1.60V/cell	663.1	472.9	369.9	299.2	225.4	166.0	135.2	82.8	62.9	50.2	42.3	36.9	29.1	24.7	12.8



LPGS Series-Gel Battery

LPGS12-120(12V120Ah)



Applications

- Communication power supply
- Engine starting
- Pump systems
- Alarm installations
- Marine and power stations

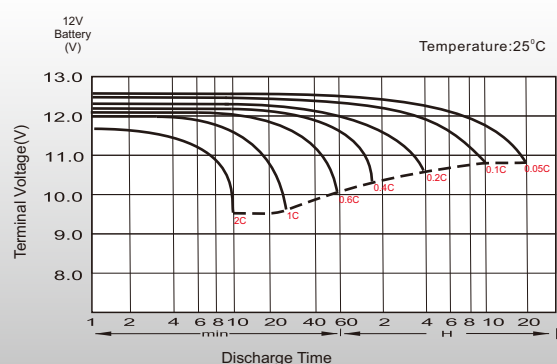
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature $-20 \sim 55^{\circ}\text{C}$
- $\leq 3\%$ Self discharge @ 25°C

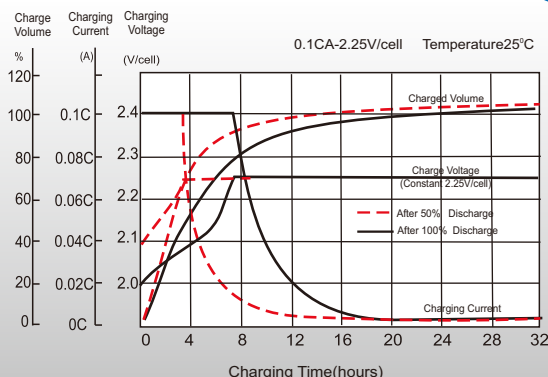
Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified, CE Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

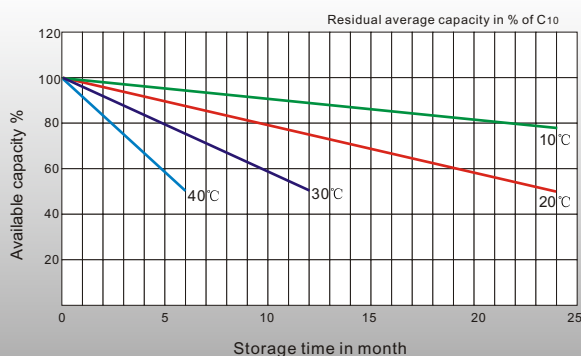
Discharge Characteristics



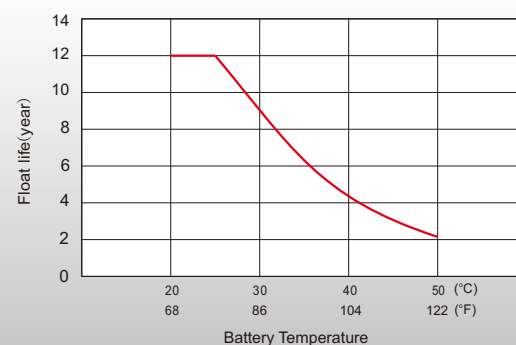
Float Charging Characteristics



General Relation of Capacity VS. Storage Time



Effect of Temperature on Long Term Float Life



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