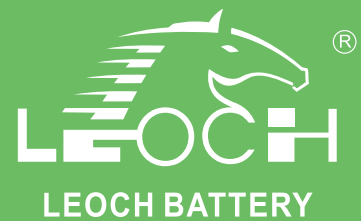




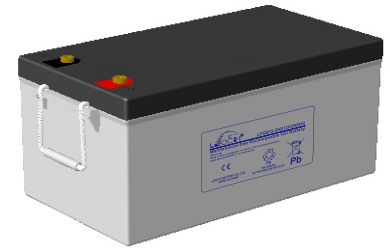
LPGS Series-Gel Battery

LPGS12-250(12V250Ah)

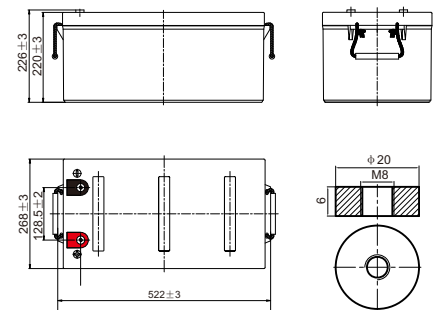


Specifications

Rated Voltage	12V	
Nominal Capacity	250Ah (C ₂₀ , 1.75V/cell)	
Dimension	Length	522±3mm (20.6 inches)
	Width	268±3mm (10.6 inches)
	Container Height	220±3mm (8.66 inches)
	Total Height	226±3mm (8.90 inches)
Approx Weight	75.5 Kg (166.4 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	269.0 Ah	(100hr, 2.69A, 1.80V/cell)
	265.7 Ah	(72hr, 3.69A, 1.80V/cell)
	250.0 Ah	(20hr, 12.5A, 1.75V/cell)
	228.0 Ah	(10hr, 22.8A, 1.80V/cell)
	150.3 Ah	(1hr, 150.3A, 1.75V/cell)
Max. Discharge Current	2280A (5s)	
Internal Resistance (25°C)	Approx 2.9mΩ	
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 57.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 57.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	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	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	110.6	69.8	53.3	43.6	36.8	31.6	24.6	20.3	10.9	4.84	3.29	2.38
1.85V/cell	132.3	78.1	58.5	47.5	40.0	34.5	26.9	22.1	11.9	5.23	3.56	2.60
1.80V/cell	143.0	82.4	61.3	49.3	41.4	35.5	27.8	22.8	12.2	5.39	3.69	2.69
1.75V/cell	150.3	86.0	63.3	50.8	42.3	36.3	28.3	23.3	12.5	5.48	3.74	2.74

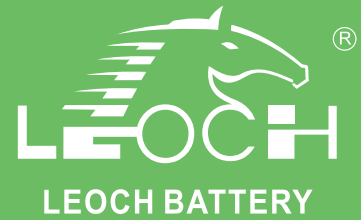
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	216.6	137.5	105.9	86.9	73.8	63.5	49.4	40.5	21.6	9.68	6.56	4.75
1.85V/cell	256.4	152.6	115.1	93.9	79.6	68.5	53.5	44.1	23.8	10.5	7.14	5.23
1.80V/cell	274.5	159.6	120.0	94.4	81.9	70.4	55.1	45.3	24.4	10.8	7.36	5.38
1.75V/cell	287.5	166.0	123.5	99.4	83.3	71.6	55.9	46.0	24.9	11.0	7.48	5.48



LPGS Series-Gel Battery

LPGS12-250(12V250Ah)



Applications

- Solar energy (wind energy) household system /communication / communication base station;
- Movable energy storage system;
- Solar traffic lights;
- Solar, wind and solar power generation;
- Emergency lighting system.

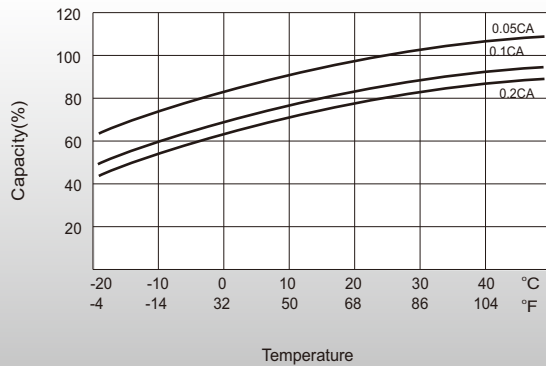
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature -20~55°C
- ≤3% Self discharge per month
- Fast recharge

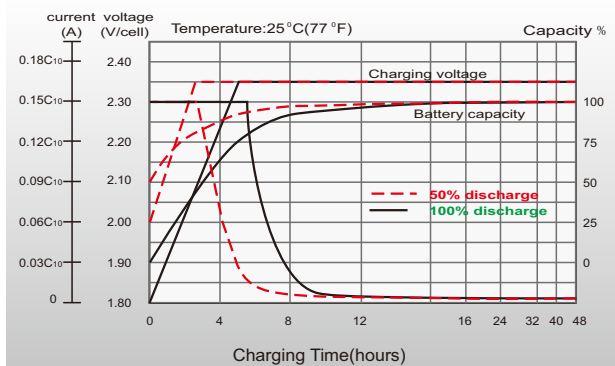
Standards

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

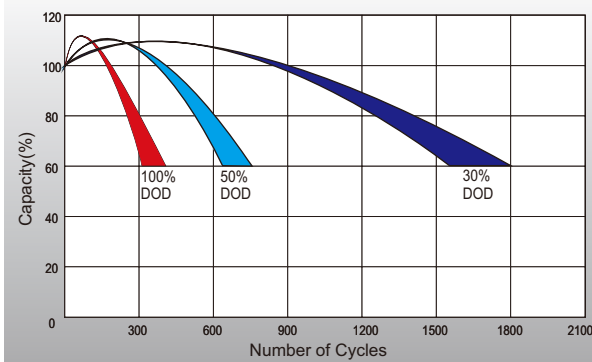
Temperature Effects in Relation to Battery Capacity



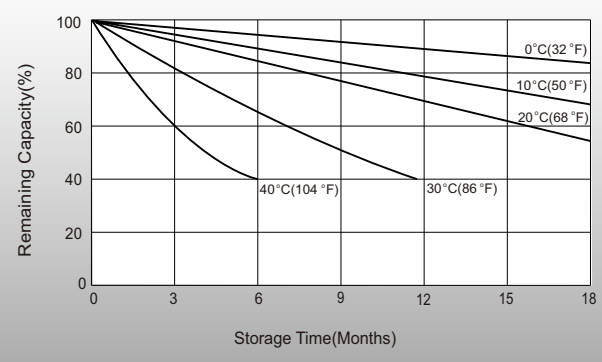
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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