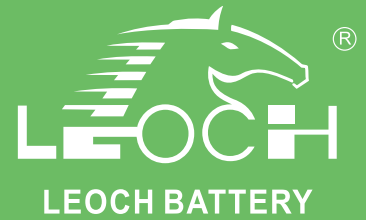




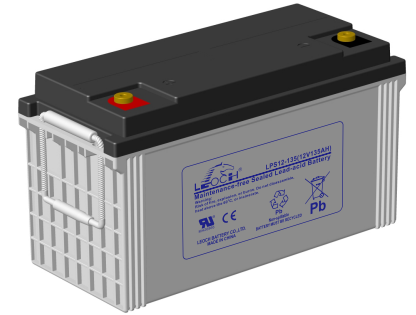
LPS Series-Solar Power

LPS12-135(12V135Ah)

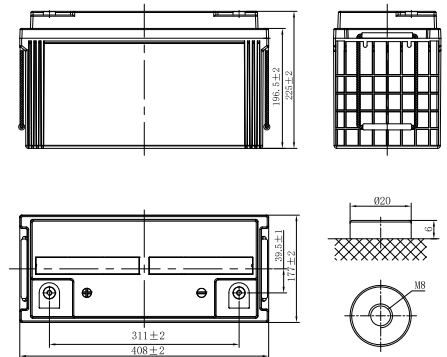


Specifications

Rated Voltage	12V	
Nominal Capacity	138.0Ah	(C ₁₀₀ , 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	34.3Kg (75.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	138.0Ah	(100hr, 1.38A, 1.80V/cell)
	126.0Ah	(20hr, 6.30A, 1.80V/cell)
	120.0Ah	(10hr, 12.0A, 1.80V/cell)
	107.0Ah	(5hr, 21.4A, 1.75V/cell)
	77.6 Ah	(1hr, 77.6A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 4.0mΩ	
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-15 ~ 50°C (5 ~ 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	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	LPS 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	120h
1.85V/cell	63.1	35.9	28.6	23.3	19.9	18.0	14.0	11.3	5.92	2.54	1.74	1.30	1.13
1.80V/cell	66.8	37.8	30.0	24.4	20.6	18.6	14.4	12.0	6.30	2.70	1.86	1.38	1.20
1.75V/cell	70.8	39.6	30.8	25.3	21.4	19.1	14.6	12.2	6.43	2.75	1.90	1.41	1.22
1.70V/cell	74.0	41.0	31.8	25.9	21.7	19.4	14.9	12.4	6.49	2.78	1.91	1.42	1.24
1.67V/cell	76.7	42.3	32.8	26.5	22.1	19.8	15.1	12.5	6.55	2.81	1.93	1.44	1.25
1.60V/cell	77.6	43.0	33.4	26.9	22.4	20.0	15.2	12.6	6.62	2.84	1.95	1.45	1.26

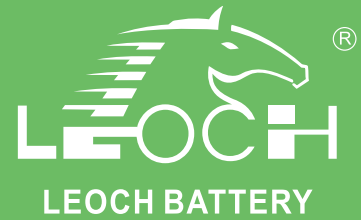
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.85V/cell	122.6	70.2	56.0	45.8	39.2	35.4	27.7	22.3	11.8	5.07	3.51	2.61	2.28
1.80V/cell	128.9	73.6	58.6	47.7	40.5	36.5	28.4	23.7	12.5	5.39	3.73	2.85	2.49
1.75V/cell	135.8	76.5	60.0	49.4	41.8	37.5	28.8	24.1	12.8	5.50	3.81	2.91	2.54
1.70V/cell	141.0	79.0	61.5	50.4	42.4	38.0	29.2	24.3	12.9	5.55	3.84	2.93	2.56
1.67V/cell	145.3	81.1	63.2	51.4	43.0	38.6	29.4	24.6	13.0	5.59	3.87	2.96	2.58
1.60V/cell	145.6	81.8	64.0	51.9	43.5	39.0	29.8	24.7	13.1	5.64	3.90	2.98	2.60



LPS Series-Solar Power

LPS12-135(12V135Ah)



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.

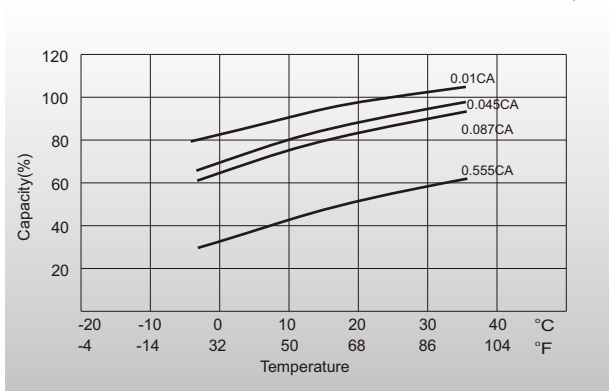
General Features

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

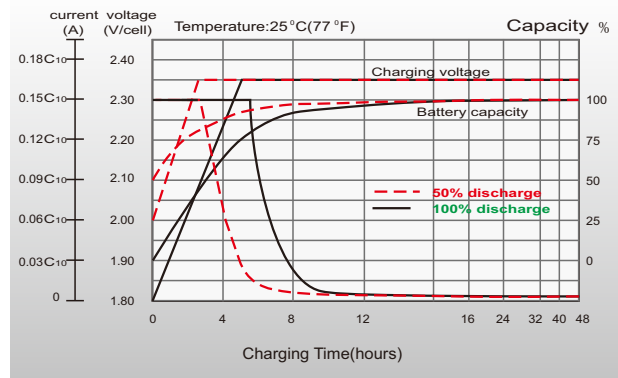
Standards

- IEC 60896 Certified
- UL, CE Certified
- Classified as "Long Life" according to Eurobat
- Manufactured in Leoch@ IATF16949, ISO 9001, ISO 14001 and OHSAS 18001 certified production facilities

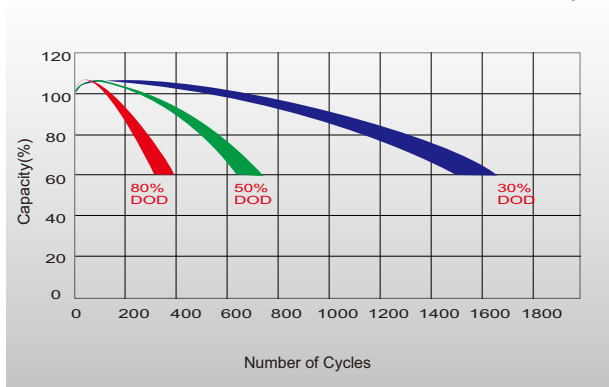
Temperature Effects in Relation to Battery Capacity



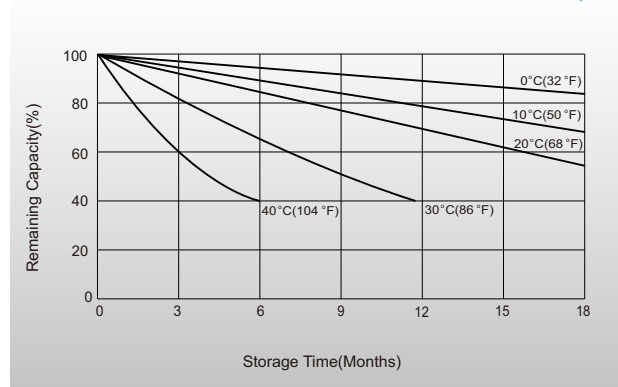
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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