



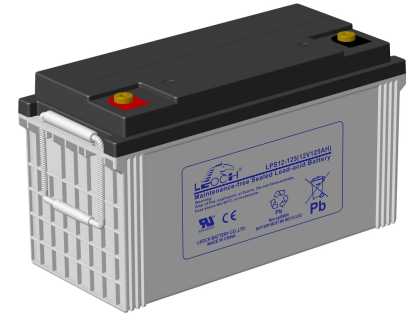
LPS Series-Solar Power

LPS12-125(12V125Ah)

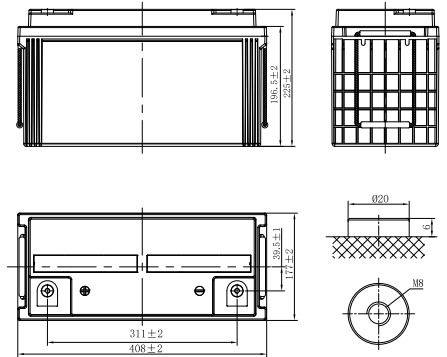


Specifications

Rated Voltage	12V	
Nominal Capacity	127.0Ah	(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	32.6Kg (71.9 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	127.0Ah	(100hr, 1.27A, 1.80V/cell)
	115.6Ah	(20hr, 5.78A, 1.80V/cell)
	110.0Ah	(10hr, 11.0A, 1.80V/cell)
	96.5Ah	(5hr, 19.3A, 1.75V/cell)
	67.2Ah	(1hr, 67.2A, 1.60V/cell)
Max. Discharge Current	1100A (5s)	
Internal Resistance (25°C)	Approx 4.5mΩ	
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 27.5A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 27.5A. 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	52.7	34.8	26.3	20.9	17.5	15.8	12.3	10.3	5.43	2.32	1.60	1.19	1.03
1.80V/cell	58.4	37.8	28.3	22.5	18.8	16.9	13.2	11.0	5.78	2.48	1.70	1.27	1.10
1.75V/cell	60.5	39.0	29.2	23.1	19.3	17.3	13.4	11.1	5.85	2.51	1.72	1.28	1.11
1.70V/cell	62.7	40.3	30.0	23.7	19.7	17.7	13.7	11.4	5.97	2.56	1.76	1.31	1.14
1.67V/cell	64.0	40.9	30.4	24.0	19.9	17.9	13.8	11.5	6.01	2.57	1.77	1.32	1.15
1.60V/cell	67.2	42.6	31.6	24.8	20.5	18.4	14.2	11.7	6.12	2.63	1.80	1.34	1.17

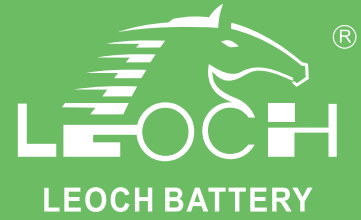
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.85V/cell	102.4	67.9	51.5	41.1	34.4	31.0	24.3	20.5	10.8	4.66	3.22	2.40	2.09
1.80V/cell	112.7	73.6	55.4	44.1	37.0	33.4	26.0	21.7	11.4	4.94	3.42	2.54	2.22
1.75V/cell	116.0	75.5	56.8	45.1	37.8	34.0	26.4	22.0	11.6	5.01	3.47	2.58	2.25
1.70V/cell	119.4	77.4	58.1	46.1	38.4	34.5	26.9	22.4	11.8	5.10	3.53	2.63	2.29
1.67V/cell	121.3	78.5	58.7	46.5	38.8	34.9	27.1	22.5	11.9	5.13	3.55	2.64	2.30
1.60V/cell	126.1	81.1	60.6	47.8	39.8	35.8	27.6	22.9	12.1	5.22	3.61	2.69	2.34



LPS Series-Solar Power

LPS12-125(12V125Ah)



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.

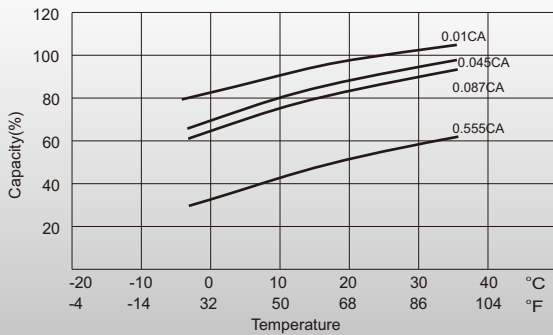
General Features

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

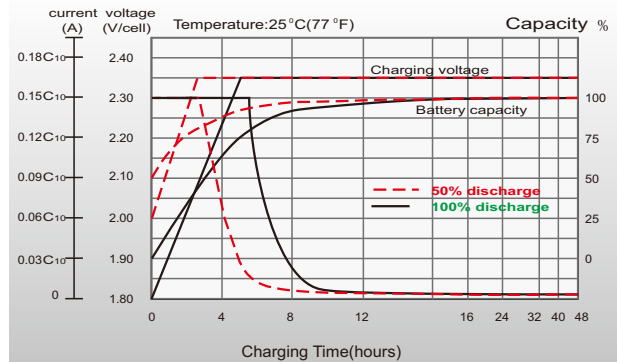
Standards

- 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

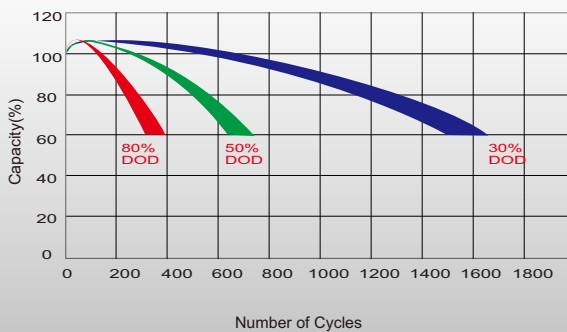
Temperature Effects in Relation to Battery Capacity



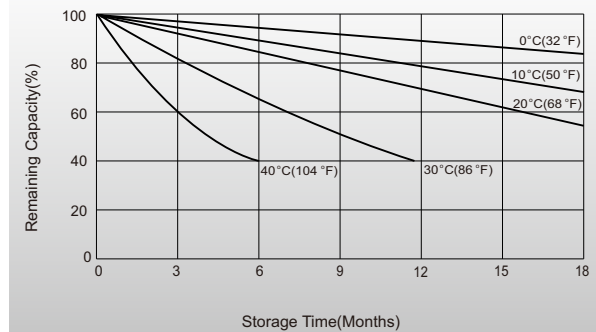
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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