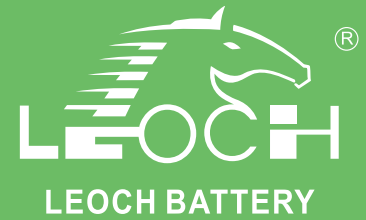




LPS Series-Solar Power

LPS12-230

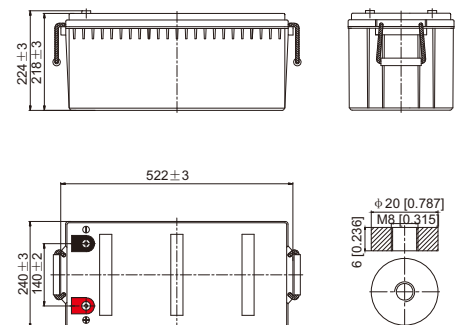


Specifications

Rated Voltage	12V	
Nominal Capacity	230Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	522mm (20.55 inches)
	Width	240mm (9.45 inches)
	Container Height	218mm (8.58 inches)
	Total Height	224mm (8.81 inches)
Approx Weight	64.0 Kg (141.1 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	210.0 Ah	(20hr, 10.5A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	174.5 Ah	(5hr, 34.9A, 1.75V/cell)
	121.5 Ah	(1hr, 121.5A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance(25°C)	Approx. 2.7mΩ	
Operating Temp. Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-15°C~50°C (5°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Charging Current(25°C)	57.5A	
Charge voltage(25°C)	Float	13.5V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	14.4~15.0V
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15 min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	227.5	189.0	146.8	116.3	94.1	61.3	46.3	37.9	32.0	22.4	19.2	10.2	4.58	2.25
1.80V/cell	252.2	207.9	158.4	123.5	99.2	65.2	48.8	39.7	33.6	23.5	20.0	10.5	4.65	2.30
1.75V/cell	279.8	227.7	170.4	132.0	107.0	68.3	51.5	41.5	34.9	24.2	20.4	10.7	4.73	2.32
1.70V/cell	305.7	248.7	187.2	137.9	113.0	72.0	54.0	43.2	36.3	25.1	21.1	10.9	4.78	2.35
1.65V/cell	323.7	262.5	197.2	146.4	116.9	74.5	56.0	44.7	37.6	25.7	21.5	11.2	4.87	2.39
1.60V/cell	354.8	285.0	209.6	151.7	121.5	77.6	57.9	46.1	38.9	26.4	22.0	11.5	4.95	2.41

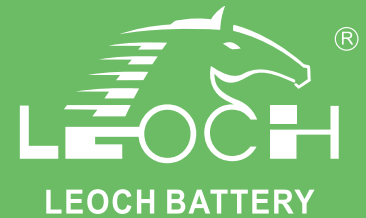
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15 min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	426.8	358.2	281.3	224.7	183.0	119.7	90.6	74.4	63.1	44.4	38.1	20.3	9.16	4.51
1.80V/cell	466.8	388.2	298.9	235.7	191.3	126.4	95.0	77.6	65.9	46.4	39.7	20.9	9.28	4.59
1.75V/cell	511.5	421.2	318.9	250.7	205.4	131.9	100.0	80.8	68.2	47.7	40.5	21.3	9.41	4.62
1.70V/cell	551.1	456.6	348.4	260.8	216.2	138.7	104.6	84.1	70.9	49.5	41.8	21.7	9.51	4.68
1.65V/cell	581.4	480.1	365.5	275.7	222.9	143.1	108.2	86.8	73.2	50.7	42.7	22.2	9.67	4.74
1.60V/cell	624.3	513.7	384.2	283.0	229.6	147.9	111.1	89.1	75.4	51.9	43.5	22.7	9.83	4.78



LPS Series-Solar Power

LPS12-230



Applications

- Renewable Energy Storage Systems
- SOS pillars
- Street lighting
- Railway crossing
- Solar power stations
- Emergency lighting
- Measurement stations
- Survey and Mapping system

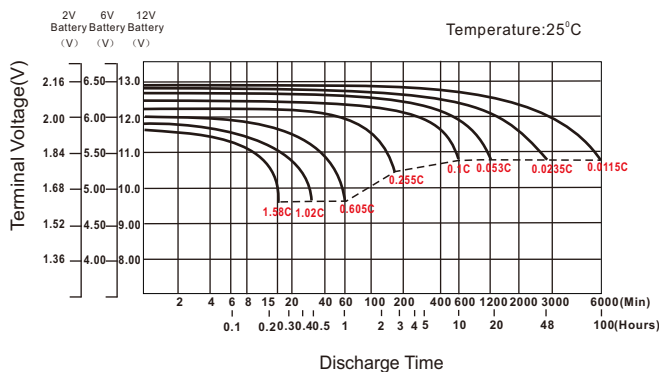
General Features

- Increased cyclic life suitable for renewable energy storage applications
- Using oxygen recombination technology: maintenance-free
- Low acid density and special plate design for increased lifetime and tolerance for irregular charging and discharging patterns of renewable energy applications
- Unique plate group configuration and high quality AGM separator offer increased operational life
- Special vent valve design with flame arrestor to ensure high safety standards
- ABS case with increased structural strength (UL94-V0 flame retardant case is available optionally upon request)

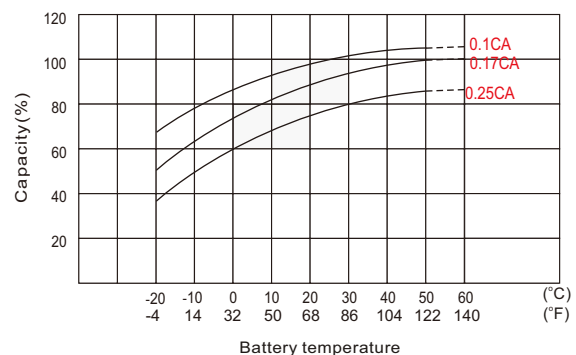
Standards

- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896 certified
- Classified as "Very Long Life" according to Eurobat
- UL certified
- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with ICAO, IATA and IMDG
- Manufactured in Leoch® Ts16949, ISO 9001, ISO 14001 and OHSAS 18001 certified production facilities

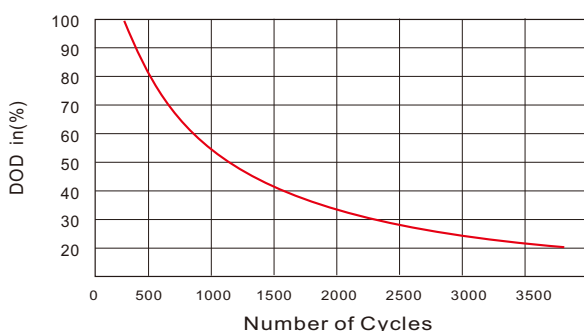
Discharge Characteristics



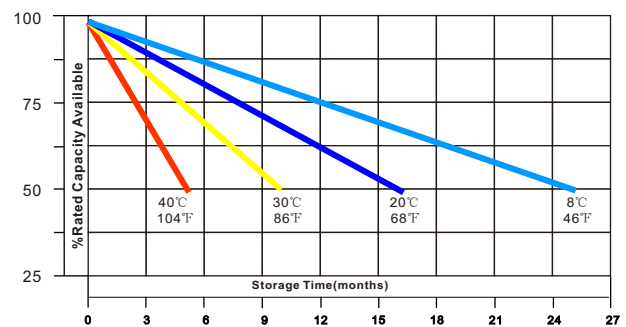
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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