



LC Series-Lead Carbon

LC2-1000(2V1000Ah)

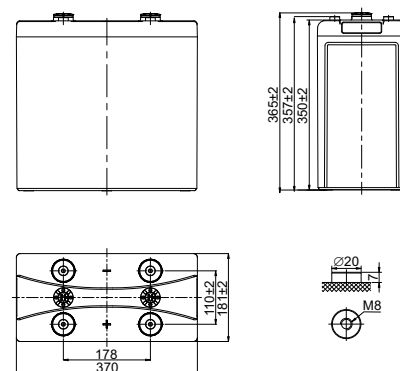


Specifications

Rated Voltage	2V	
Nominal Capacity	1000Ah	
Dimension	Length	370mm (14.6 in.)
	Width	181mm (7.13 in.)
	Container Height	350mm (13.78 in.)
	Total Height	365mm (14.37 in.)
Approx Weight	60.6 Kg (133.6 lbs)	
Terminal	M8	
Container Material	ABS Flame Retardant Material to UL94V-0	
Rated Capacity (25°C)	1000 Ah	(10hr, 100.0A, 1.80V/cell)
	851.5 Ah	(5hr, 170.3A, 1.75V/cell)
	747.9 Ah	(3hr, 249.3A, 1.75V/cell)
Max. Discharge Current	6200A	
Internal Resistance (25°C)	Approx.0.25mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Discharging Current	400.0A	
Max. Charging Current	200.0A	
Charge voltage	Cycle(Equalization)	2.35~2.40V
	Temp. Coefficient	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



Layout



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

F.V./Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	36h	48h	60h	72h	84h	100h	120h
1.90V/cell	395.2	274.1	207.5	176.9	145.8	122.4	101.7	89.3	48.5	44.1	29.9	22.9	18.4	15.6	13.5	11.4	9.60
1.85V/cell	428.0	294.0	228.4	189.1	158.0	132.7	107.1	97.1	53.5	48.0	32.5	25.0	20.0	16.7	14.4	12.2	10.2
1.80V/cell	512.4	311.2	243.0	195.7	167.5	145.0	110.8	100.0	55.0	49.0	33.2	25.5	20.4	17.2	14.8	12.6	10.5
1.75V/cell	549.1	325.4	249.3	200.4	170.3	146.8	112.7	101.9	57.5	50.0	33.8	26.0	20.8	17.5	15.2	13.0	10.9

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

F.V./Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	36h	48h	60h	72h	84h	100h	120h
1.90V/cell	774.5	543.4	416.8	356.7	293.6	248.4	205.3	181.7	98.0	86.2	58.4	44.8	36.0	30.2	26.0	22.0	18.5
1.85V/cell	841.0	574.8	454.1	377.3	317.0	266.4	216.5	195.0	106.0	90.2	61.0	46.9	37.2	31.2	27.0	22.9	19.2
1.80V/cell	988.0	604.3	477.7	390.5	334.0	289.9	221.8	200.7	110.0	93.1	63.0	48.4	38.4	32.2	27.9	23.9	20.0
1.75V/cell	1037.7	628.1	487.8	397.0	338.8	294.6	225.8	203.9	113.0	95.1	64.4	49.4	39.5	33.3	28.9	24.7	20.8



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Applications

- Smart grid system
- Hybrid power supply system
- Cyclic used in unstable grid
- Home energy storage system
- Renewable energy storage systems
- Street lamp centralized power supply system
- Distributed and Micro-grid energy storage system
- Renewable energy communication base station power supply system

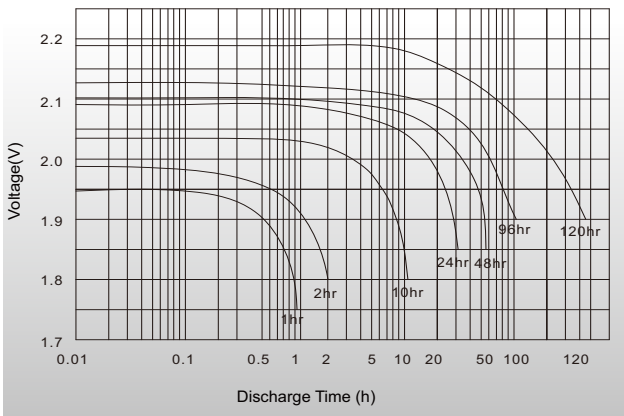
General Features

- Design life ≥ 12 years
- Adopt super carbon technology + deep cycle technology
- Excellent charging acceptance and super fast charge/large discharge performance
- Modular design and installation for less space, easy installation & maintenance
- Innovative robust design to ensure superb safety and reliability
- Horizontal installation, solve the problem of electrolyte stratification

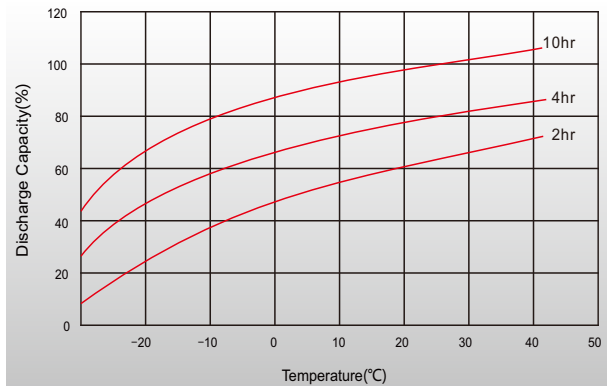
Standards

- Compliance with IEC 61427, BS EN 61427 standards
- Manufactured in Leoch@IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

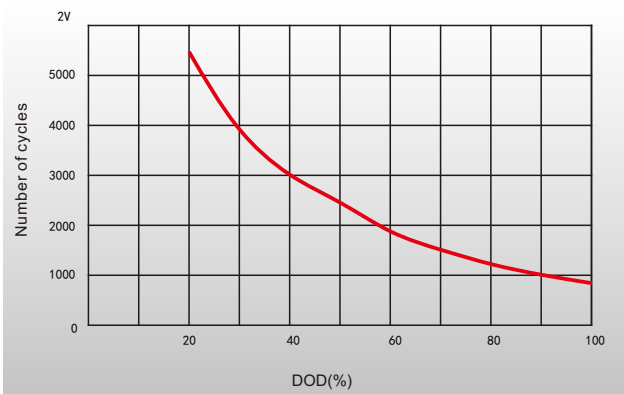
Discharge Characteristics



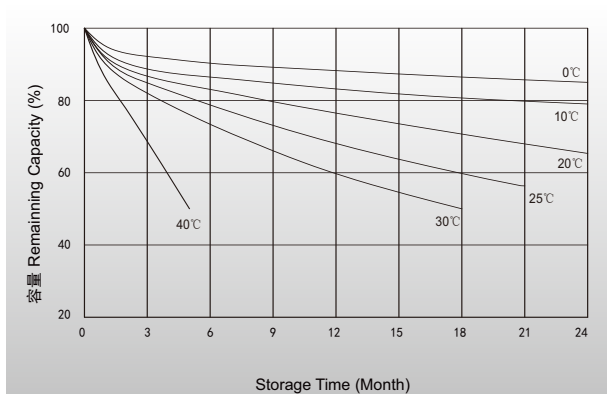
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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