



LC Series-Lead Carbon

LC2-800

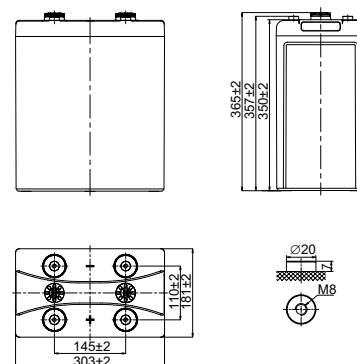


Specifications

Rated Voltage	2V	
Nominal Capacity	800Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	303mm (11.9 in.)
	Width	181mm (7.13 in.)
	Container Height	350mm (13.78 in.)
	Total Height	365mm (14.37 in.)
Approx Weight	48.8 Kg (107.6 lbs)	
Terminal	M8	
Container Material	ABS Flame Retardant Material to UL94V-0	
Rated Capacity (25°C)	1044.0 Ah	C120(8.70A, 1.85V/cell)
	800.0 Ah	C10(80.0A, 1.80V/cell)
	600.0 Ah	C3(200.0A, 1.80V/cell)
	440.0 Ah	C1(440.0A, 1.75V/cell)
Max. Discharge Current	4960A	
Internal Resistance (25°C)	Approx.0.40mΩ	
Operating Temp.Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	-20°C~40°C (-4°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(25°C)	320.0A	
Max.Charging Current(25°C)	160.0A	
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	24h	36h	48h	60h	72h	84h	96h	108h	120h	240h
1.90V/cell	317.8	218.9	166.5	141.4	118.3	102.6	83.2	71.5	35.3	23.9	18.3	/	/	/	/	/	/	4.40
1.85V/cell	342.6	235.0	182.9	150.7	126.6	110.0	89.6	77.4	38.2	25.9	19.9	16.0	13.5	11.80	10.6	9.55	8.70	/
1.80V/cell	409.1	249.3	200.0	157.3	131.8	114.4	92.9	80.0	39.2	26.5	20.4	/	/	/	/	/	/	/
1.75V/cell	440.0	260.7	205.7	160.1	134.2	116.5	94.7	81.6	40.2	27.2	20.9	/	/	/	/	/	/	/

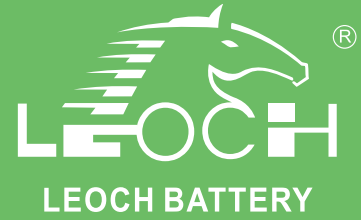
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	24h	36h	48h	60h	72h	84h	96h	108h	120h	240h
1.90V/cell	623.6	433.9	333.1	284.6	238.7	207.2	168.5	145.3	68.6	46.4	35.7	/	/	/	/	/	/	8.84
1.85V/cell	673.2	459.6	363.1	302.4	254.2	221.1	180.4	156.0	72.0	48.8	37.5	32.0	27.0	23.6	21.2	19.2	17.4	/
1.80V/cell	790.4	483.4	394.3	311.8	262.2	228.2	186.4	161.3	74.5	50.4	38.7	/	/	/	/	/	/	/
1.75V/cell	833.2	502.4	404.4	317.4	266.6	231.7	188.8	163.1	76.0	51.4	39.5	/	/	/	/	/	/	/



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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

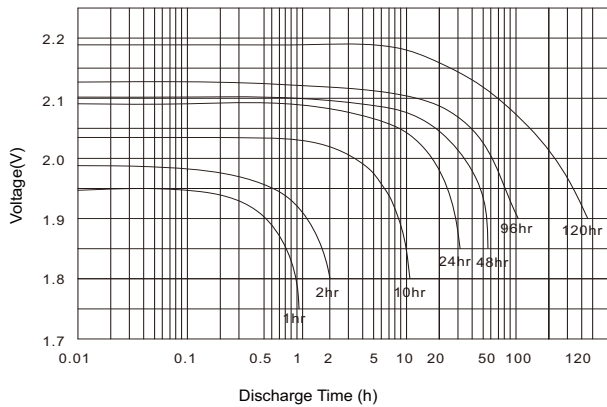
General Features

- 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

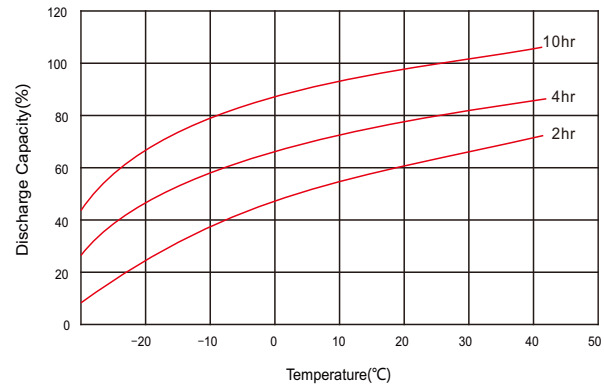
Standards

- Compliance with IEC 61427, BS EN 61427 standards
- UL, CE Certified
- Manufactured in Leoch@TS16949, IOS 45001, IOS 9001 and ISO14001 certified production facilities

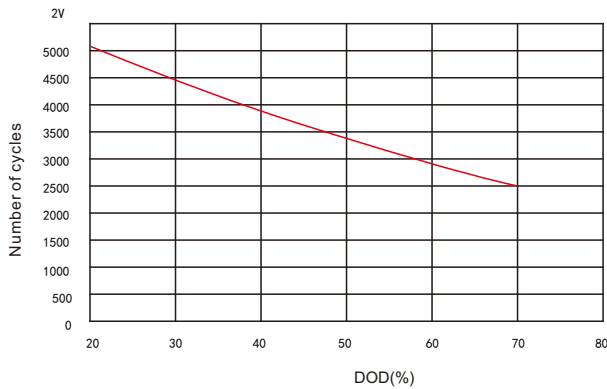
Discharge Characteristics



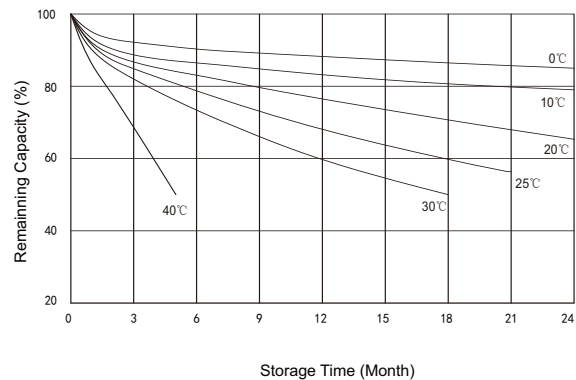
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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