



LRC Series-Lead Carbon

LRC2-500

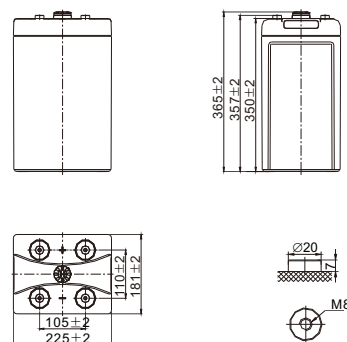


Specifications

Rated Voltage	2V	
Nominal Capacity	536Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	225mm (8.86 in.)
	Width	181mm (7.13 in.)
	Container Height	350mm (13.78 in.)
	Total Height	365mm (14.37 in.)
Approx Weight	38.8 Kg (85.5 lbs)	
Terminal	M8	
Container Material	ABS Flame Retardant Material to UL94V-0	
Rated Capacity (25°C)	654.0 Ah	C120(5.45A, 1.85V/cell)
	500.0 Ah	C10(50.0A, 1.80V/cell)
	375.0 Ah	C3(125.0A, 1.80V/cell)
	275.1 Ah	C1(275.1A, 1.75V/cell)
Short Circuit Current	5840A	
Internal Resistance(25°C)	Approx.0.30mΩ	
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)	250.0A	
Max.Charging Current(25°C)	150.0A	
Charge voltage(25°C)	Cycle(Equalization)	2.30~2.40V
	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	≤3.5% 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	208.5	137.0	103.7	88.0	73.7	63.9	51.9	44.7	22.1	14.9	11.5	/	/	/	/	/	/	2.80
1.85V/cell	231.4	146.5	114.7	94.6	79.3	68.9	56.0	48.3	24.0	16.3	12.5	10.0	8.50	7.50	6.70	6.00	5.45	/
1.80V/cell	255.2	156.1	125.0	98.3	82.4	71.5	58.1	50.0	24.5	16.6	12.7	/	/	/	/	/	/	/
1.75V/cell	275.1	162.7	127.7	100.2	84.0	72.9	59.2	51.0	25.0	16.9	13.0	/	/	/	/	/	/	/

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	408.1	271.2	208.3	178.2	149.4	129.7	105.5	90.9	43.1	29.2	22.4	/	/	/	/	/	/	5.60
1.85V/cell	454.8	287.4	227.1	188.8	158.8	138.1	112.8	97.6	45.1	30.5	23.4	20.0	17.0	15.0	13.4	12.0	10.9	/
1.80V/cell	494.5	301.7	246.6	195.0	164.0	142.7	116.5	100.8	46.6	31.5	24.2	/	/	/	/	/	/	/
1.75V/cell	519.3	314.0	250.3	198.4	166.6	144.8	118.0	101.9	47.5	32.2	24.7	/	/	/	/	/	/	/



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Applications

- Mobile container storage system
- Peak load shifting energy storage system
- Load tracking energy storage system
- Oil and electricity hybrid energy storage system
- Grid frequency adjustment energy storage system
- New energy communication base station, IDC, UPS etc.
- New energy generation (solar, wind, PV/wind hybrid) access to energy storage systems

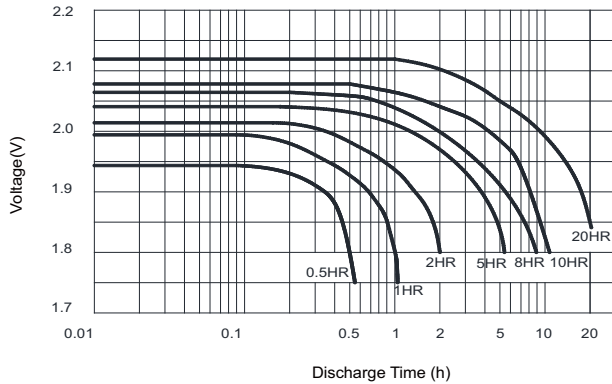
General Features

- Design life ≥ 15 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

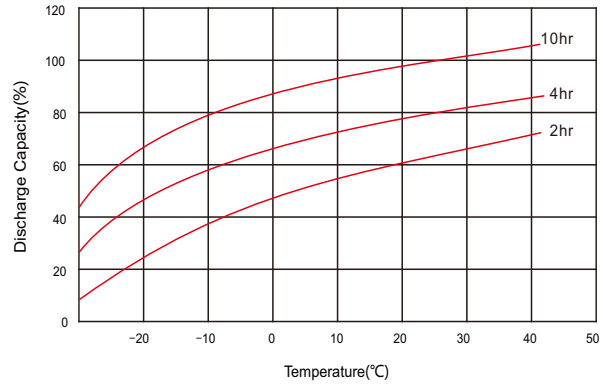
Standards

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

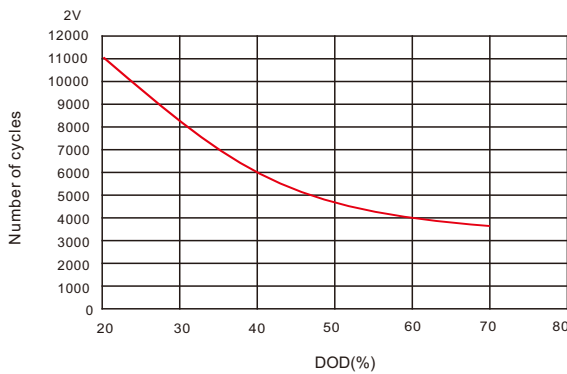
Discharge Characteristics



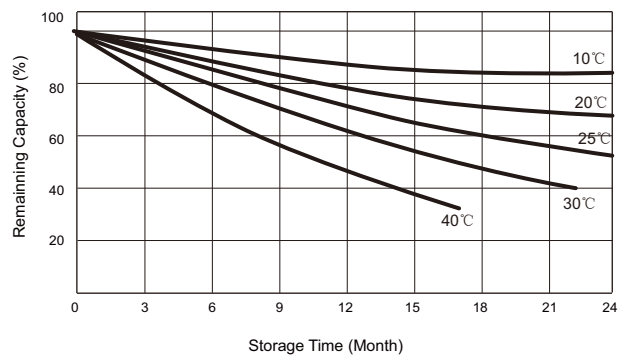
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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Publication No.:LB-LRC2-500-PD-EN-V1.2-202005