



LRC Series-Lead Carbon

LRCF12-170

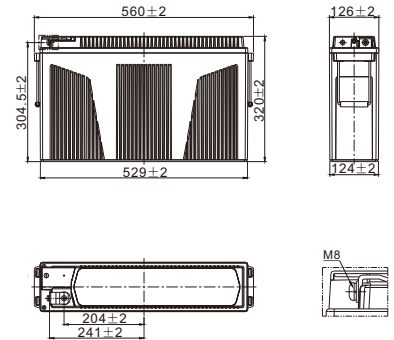


Specifications

Rated Voltage	12V	
Nominal Capacity	174Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	560mm (22.05in.)
	Width	126mm (4.96 in.)
	Container Height	320mm (12.60 in.)
	Total Height	320mm (12.60 in.)
Approx Weight	62.0Kg (136.7lbs)	
Terminal	M8	
Container Material	ABS Flame Retardant Material to UL94V-0	
Rated Capacity (25°C)	180.0 Ah	C120(1.50A, 1.85V/cell)
	170.0 Ah	C10(17.0A, 1.80V/cell)
	128.7 Ah	C3(42.9A, 1.80V/cell)
	103.2 Ah	C1(103.2A, 1.75V/cell)
Short Circuit Current	1706A	
Internal Resistance(25°C)	Approx. 4.0mΩ	
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)	85.0A	
Max. Charging Current(25°C)	51.0A	
Charge voltage(25°C)	Cycle(Equalization)	2.30~2.40V/cell
	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	5h	8h	10h	12h	20h	24h	36h	48h	72h	100h	120h
1.90V/cell	83.3	50.9	36.9	24.6	16.9	14.5	12.5	7.54	6.42	4.35	3.32	2.25	1.63	1.37
1.85V/cell	93.8	57.4	41.6	27.8	19.0	16.3	14.0	8.50	7.23	4.90	3.74	2.53	1.84	1.54
1.80V/cell	100.4	59.1	42.9	28.9	19.8	17.0	14.6	8.83	7.52	5.09	3.87	2.63	1.91	1.60
1.75V/cell	103.2	60.3	43.7	29.3	20.1	17.2	14.8	8.94	7.60	5.15	3.92	2.66	1.93	1.62

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

F. V/Time	1h	2h	3h	4h	5h	6h	7h	8h
1.90V/cell	158.0	94.4	70.7	56.3	47.0	40.6	35.9	32.4
1.85V/cell	178.0	106.4	79.6	63.5	52.9	45.8	40.5	36.5
1.80V/cell	189.6	112.2	83.0	66.0	54.9	47.5	42.0	37.8
1.75V/cell	194.2	114.2	84.2	66.9	55.6	48.0	42.3	37.9



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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

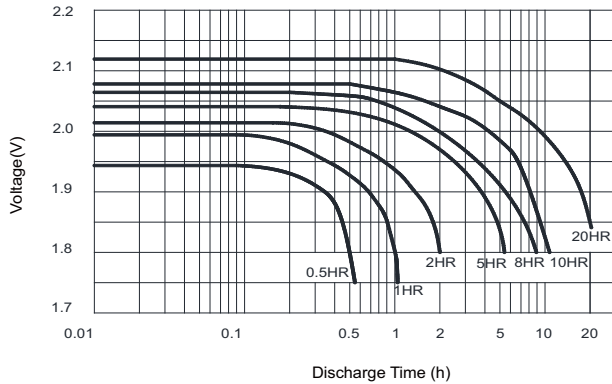
General Features

- Design life ≥ 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

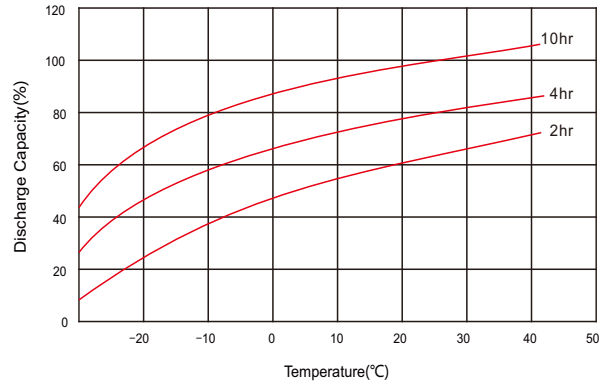
Standards

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

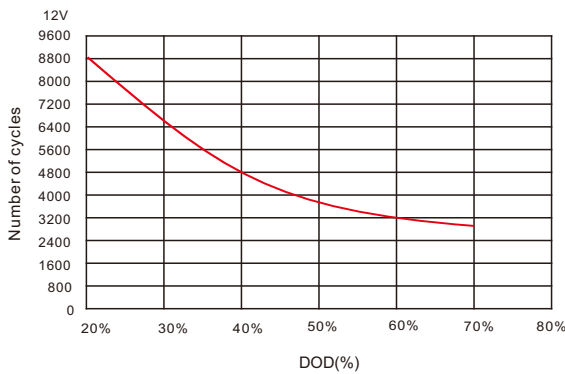
Discharge Characteristics



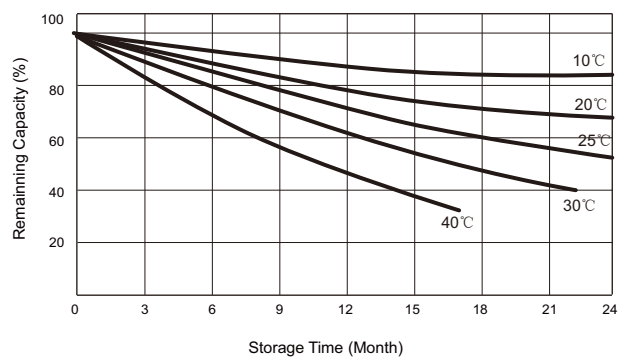
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



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