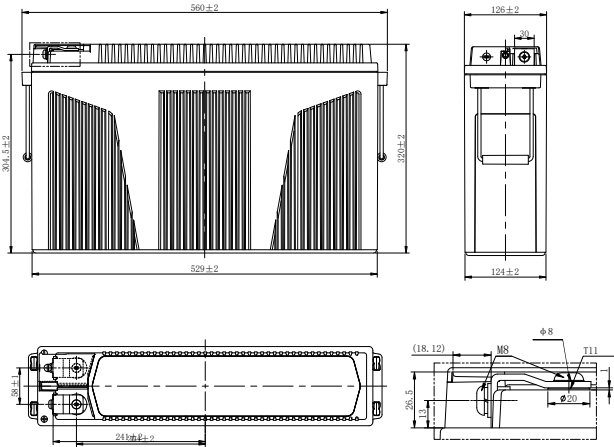
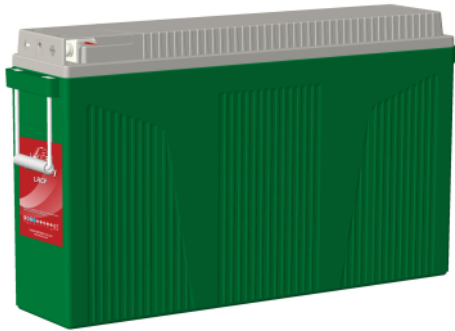


# LRC SERIES-LEAD CARBON

## LRCF12-170 (12V170Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	170Ah
Dimension	Length	560mm (22.0inches)
	Width	126mm (4.96inches)
	Container Height	320mm (12.6inches)
	Total Height	320mm (12.6inches)
Approx Weight	62.0kg (136.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1530A	
Internal Resistance (25°C)	Approx 4 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	/	2.35-2.40V/cell
Temp. Coefficient	/	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	Self Discharge	≤3.5% per month at 25°C (77°F)

### DISCHARGE TABLE

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	5h	8h	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

# LRC SERIES-LEAD CARBON

## LRCF12-170 (12V170Ah)



### APPLICATIONS

- Mobile container storage system
- Peak load shifting 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

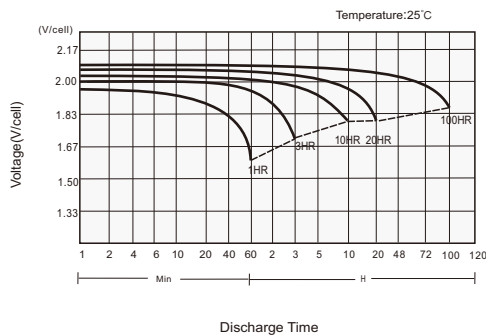
### GENERAL FEATURES

- Super Carbon technology enhanced active material to maximize cycle performance and PSoC operation
- 100% leak tested to ensure seal integrity
- High-strength, High Temperature resistant, UL94-V0 Compliant Case and Cover optional
- Extended service life in high temperature applications

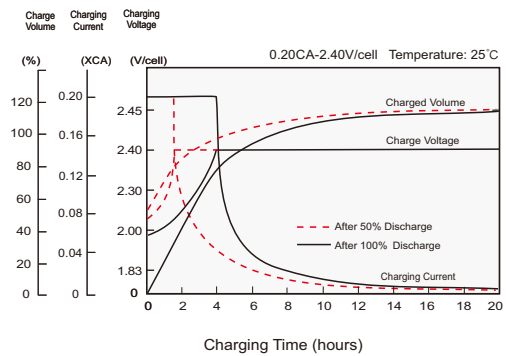
### STANDARDS

- Compliance with IEC 61427, BS EN 61427 standards
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

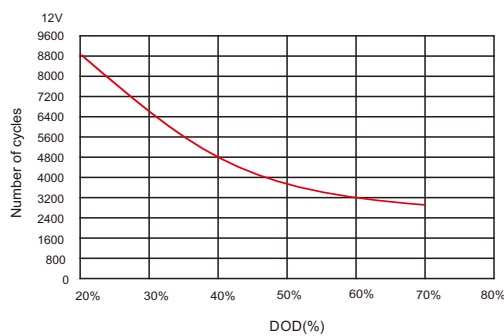
#### Discharge Characteristics



#### Charging Characteristics



#### Cycle Life in Relation to DoD



#### Self Discharge Characteristics

