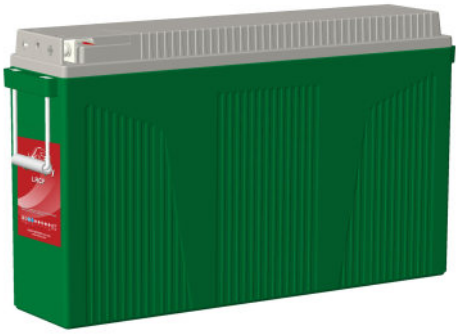
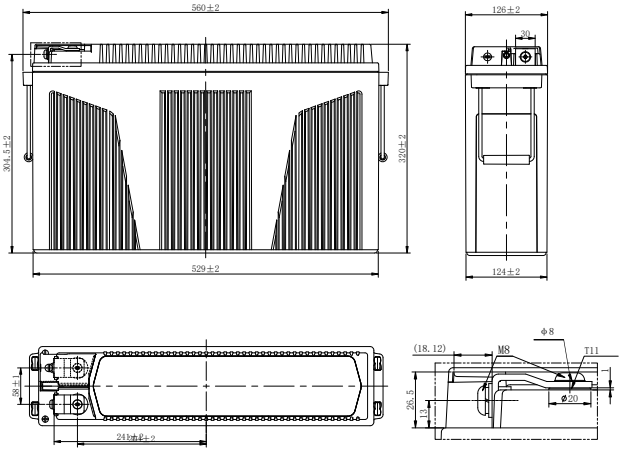
LRC SERIES-LEAD CARBON

LRCF12-170 (12V170Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},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)		0.15C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.25V/cell	2.35V/cell
Temp. Coeffcient	/	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	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	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

LRC SERIES-LEAD CARBON

LRCF12-170 (12V170Ah)

LEOCH BATTERY

APPLICATIONS

- Mobile Containerized Energy Storage Systems
- Residential Energy Storage Systems
- PSOC Cycle Applications
- Peak Shaving and Valley Filling System
- Natural gas and oil hybrid energy storage systems
- Grid Frequency Regulation Energy Storage System
- Solar, wind, and hybrid energy storage systems
- Microgrid power plants

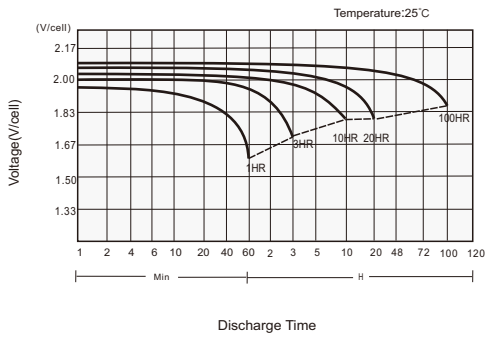
GENERAL FEATURES

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

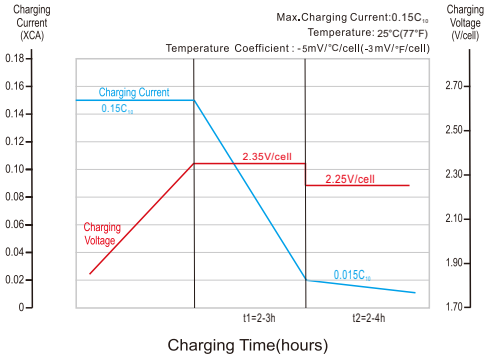
STANDARDS

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

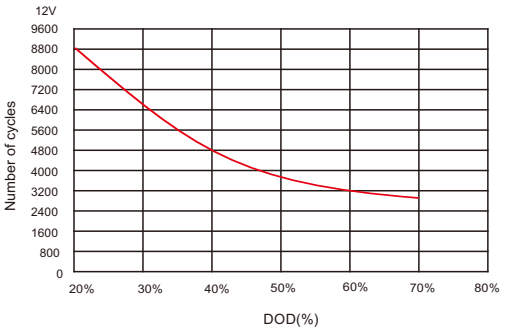
Discharge Characteristics



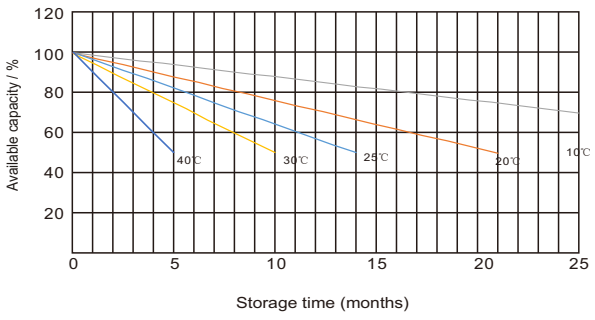
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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Leoch Battery Corporation
www.leochamericas.com

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Publication No.:LB-LRCF12-170-PD-EN-V2.2-20260425