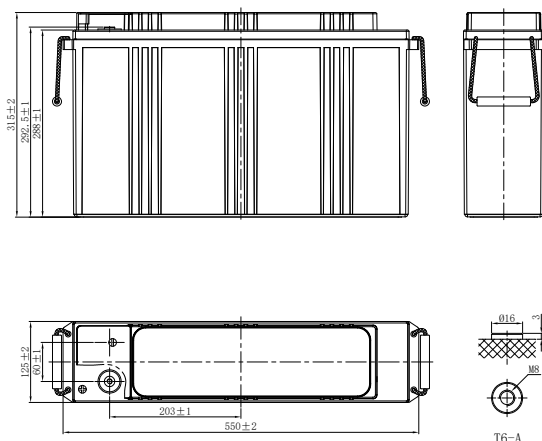
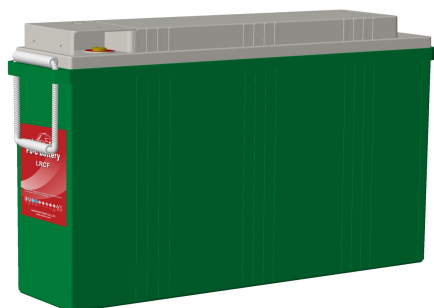


LRC SERIES-LEAD CARBON

LRCF12-140 (12V140Ah)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25°C)		C ₁₀ 1.80V/cell 140Ah
Dimension	Length	550mm (21.7inches)
	Width	125mm (4.92inches)
	Container Height	315mm (12.4inches)
	Total Height	315mm (12.4inches)
Approx Weight		55.0kg (121.3lbs)
Terminal		T6-A(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2240A
Internal Resistance (25°C)		Approx 5 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	68.5	41.9	30.4	20.3	13.9	12.0	10.3	6.21	5.28	3.58	2.73	1.85	1.34	1.12
1.85V/cell	77.2	47.2	34.3	22.8	15.7	13.4	11.6	7.00	5.95	4.04	3.07	2.08	1.51	1.27
1.80V/cell	82.6	48.6	35.3	23.8	16.3	14.0	12.0	7.26	6.19	4.19	3.19	2.16	1.57	1.31
1.75V/cell	84.9	49.6	36.0	24.2	16.5	14.2	12.2	7.36	6.25	4.24	3.23	2.19	1.59	1.33

Constant Power Discharge (Watts/cell) at 25°C (77°F)								
F.V/Time	1h	2h	3h	5h	8h	6h	7h	8h
1.90V/cell	130.1	77.7	58.2	46.4	38.7	33.5	29.6	26.7
1.85V/cell	146.6	87.6	65.6	52.3	43.6	37.7	33.3	30.1
1.80V/cell	156.1	92.4	68.4	54.4	45.2	39.1	34.6	31.1
1.75V/cell	159.9	94.1	69.3	55.1	45.8	39.5	34.8	31.2

LRC SERIES-LEAD CARBON

LRCF12-140 (12V140Ah)



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

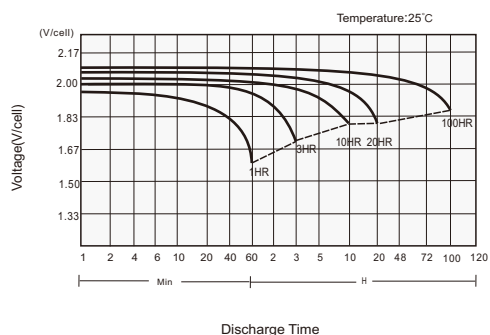
GENERAL FEATURES

- 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

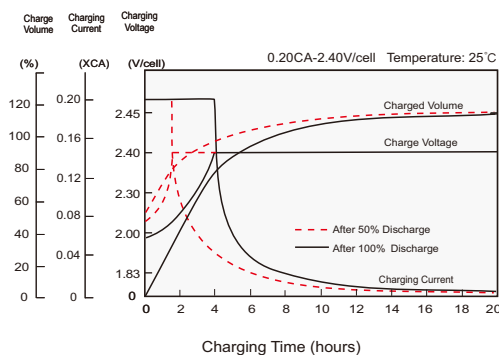
STANDARDS

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

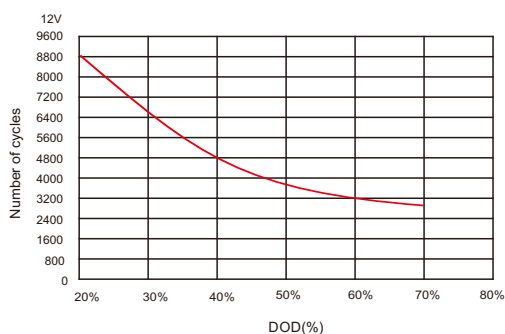
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

