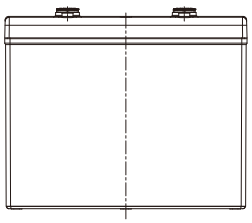
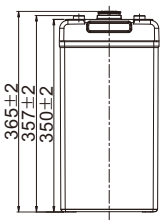
LRC SERIES-LEAD CARBON

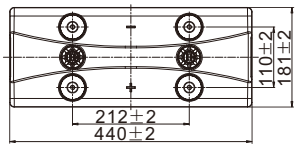
LRC2-1000 (2V1000Ah)

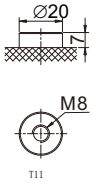
LEOCH BATTERY











CHARACTERISTICS

Item		Specifications
Rated Voltage		2V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	1000Ah
Dimension	Length	440mm (17.3inches)
	Width	181mm (7.13inches)
	Container Height	350mm (13.8inches)
	Total Height	365mm (14.4inches)
Approx Weight		75.8kg (167.1lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		11000A
Internal Resistance (25˚C)		Approx 0.23 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
	2.23V/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	4h	5h	6h	8h	10h	24h	36h	48h	60h	72h	84h	96h	108h	120h	240h
1.90V/cell	395.2	274.1	207.5	176.9	148.0	128.2	103.9	89.3	44.1	29.9	22.9	/	/	/	/	/	/	5.50
1.85V/cell	428.0	294.0	228.4	189.1	158.8	138.0	112.4	97.1	48.0	32.5	25.0	20.0	17.0	14.8	13.0	12.0	10.9	/
1.80V/cell	512.4	311.2	250.0	195.7	164.2	142.5	116.0	100.0	49.0	33.2	25.5	/	/	/	/	/	/	/
1.75V/cell	550.0	325.4	257.9	200.4	167.9	145.7	118.3	101.9	50.0	33.8	26.0	/	/	/	/	/	/	/

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	774.5	543.4	416.8	356.7	299.0	259.5	210.9	181.7	86.2	58.4	44.8	/	/	/	/	/	/	11.0
1.85V/cell	841.0	574.8	454.1	377.3	317.3	276.0	225.4	195.0	90.2	61.0	46.9	40.0	34.0	29.6	26.0	24.0	21.8	/
1.80V/cell	988.0	604.3	491.5	390.5	328.3	285.6	233.2	201.7	93.1	63.0	48.4	/	/	/	/	/	/	/
1.75V/cell	1039.4	628.1	503.7	397.0	333.4	289.7	236.1	203.9	95.1	64.4	49.4	/	/	/	/	/	/	/

LRC SERIES-LEAD CARBON

LRC2-1000 (2V1000Ah)

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

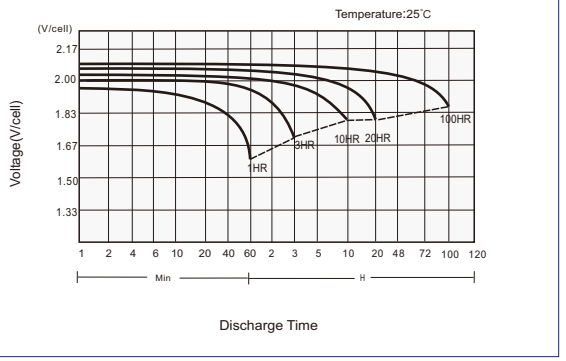
GENERAL FEATURES

- 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
- Modular design and installation for less space, easy installation and maintenance

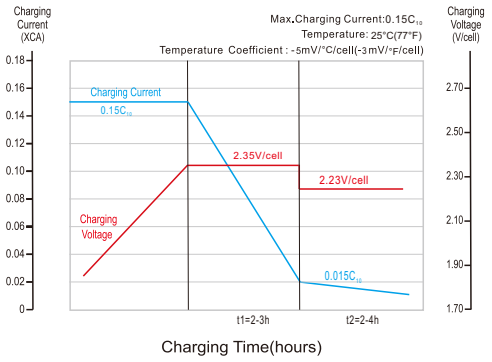
STANDARDS

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

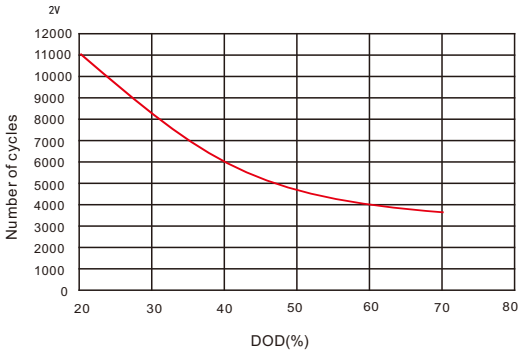
Discharge Characteristics



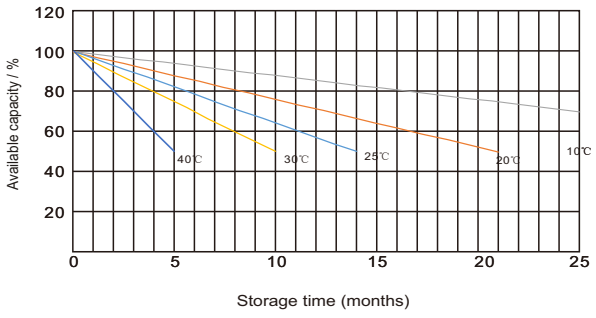
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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