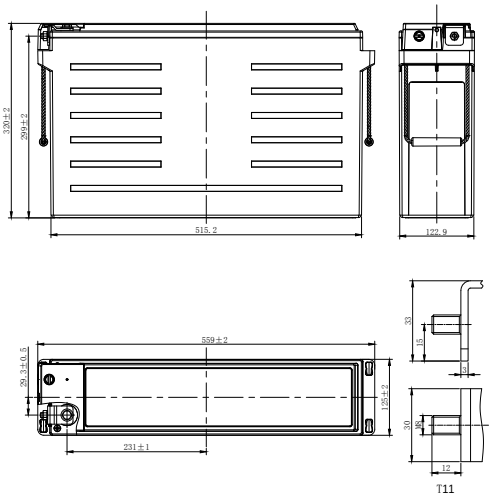
PLH+C-PURE LEAD CARBON

PLH+C 190FT (12V190Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{10},1.80V/cell	190Ah
	C_8,1.75V/cell	190Ah
Dimension	Length	559mm (22.0inches)
	Width	125mm (4.92inches)
	Container Height	320mm (12.6inches)
	Total Height	320mm (12.6inches)
Approx Weight		57.6kg (127.0lbs)
Terminal		T11(M8)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		3800A
Internal Resistance (25℃)		Approx 3 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~60℃ (-4~140°F)
	Charge	-20~40℃ (-4~104°F)
	Storage	-20~50℃ (-4~122°F)
Nominal Operating Temp. Range		25±3℃ (77±5°F)
Max.Charging Current (25℃)		0.3C
Charge voltage (25℃)	Float Charge	Equalization Charge
	2.27±0.02V/cell	2.35-2.40V/cell
Temp. Coeffcient	-3mV/cell/℃	-4mV/cell/℃
Effect of temp. to Capacity	40℃ (104°F)	103%
	25℃ (77°F)	100%
	0℃ (32°F)	86%
Self Discharge	PLH+C series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	273.6	231.8	199.5	157.7	120.0	107.9	62.7	46.9	39.4	34.7	22.3	18.9	10.1
1.80V/cell	299.8	250.8	216.6	169.1	129.2	114.0	65.6	48.8	40.9	35.9	23.0	19.0	10.3
1.75V/cell	326.0	272.2	230.9	176.7	134.3	119.7	67.5	49.7	42.3	36.7	23.7	19.7	10.5
1.70V/cell	345.4	281.2	243.4	185.1	138.1	123.5	71.3	51.3	43.2	37.2	24.0	19.9	10.6
1.67V/cell	358.0	288.8	249.1	186.2	140.1	127.3	73.2	52.6	44.2	37.6	24.5	20.1	10.7
1.60V/cell	372.8	304.0	256.5	189.6	142.5	131.1	74.2	53.2	44.7	38.4	24.6	20.1	10.7

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	510.9	439.0	386.0	302.7	237.1	215.7	124.9	98.4	85.1	70.4	45.9	37.7	20.1
1.80V/cell	551.5	463.3	414.8	328.8	254.1	220.5	128.9	99.6	86.9	72.5	46.7	38.1	20.5
1.75V/cell	593.2	495.8	442.7	339.4	260.7	225.0	134.7	100.8	87.6	73.0	47.0	38.9	20.9
1.70V/cell	622.7	509.8	458.8	349.6	267.1	229.4	136.6	102.0	87.7	72.8	47.2	39.2	20.9
1.67V/cell	639.5	534.7	466.1	354.1	269.8	234.9	137.3	103.6	88.2	73.7	47.3	39.4	21.0
1.60V/cell	649.0	553.3	478.8	361.8	274.3	237.6	138.3	104.0	88.3	73.8	47.4	40.0	21.0

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APPLICATIONS

- Backup Power
- Telecom base station with unstable mains
- Light hybrid and renewable energy applications

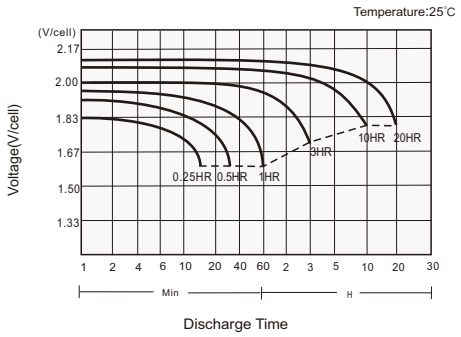
GENERAL FEATURES

- 20 years design life (25°C)
- Utlizes pure lead technology. Thin positive grids and unique manufacturing process to maximize corrosion resistance and servicelife while increasing energy density
- Carbon technology for high charge acceptance and excellent cycling performance
- Case and cover are UL94 V-0 and highly resistant to shock, heat sealed and 100% tested to prevent leaks
- Front access design for easy installation and maintenance

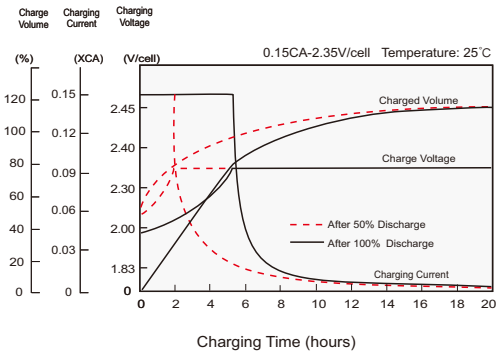
STANDARDS

- Compliance with IEC 60896 standards
- Manufactured in Leoch®IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

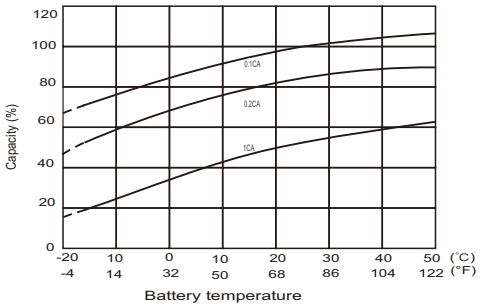
Discharge Characteristics



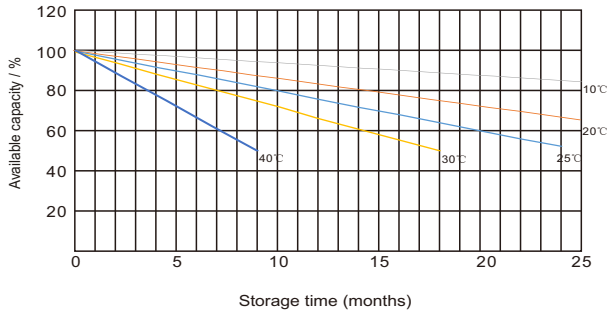
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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Leoch Battery Corporation
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