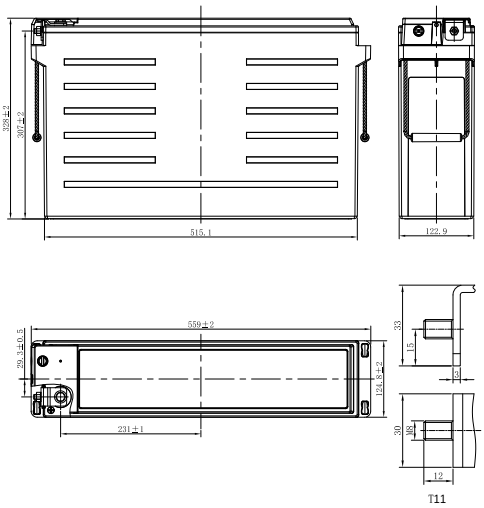
PLH+C-PURE LEAD CARBON

PLH+C 210FT (12V210Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{10},1.80V/cell	210Ah
	C_8,1.75V/cell	210Ah
Dimension	Length	559mm (22.0inches)
	Width	125mm (4.92inches)
	Container Height	328mm (12.9inches)
	Total Height	328mm (12.9inches)
Approx Weight		60.5kg (133.4lbs)
Terminal		T11(M8)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		4200A
Internal Resistance (25℃)		Approx 2.6 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	352.8	294.0	264.6	205.8	157.8	128.8	76.6	55.0	45.4	37.5	25.0	20.4	10.7
1.80V/cell	390.6	319.2	283.5	218.2	166.5	135.4	79.5	56.9	47.0	38.7	25.8	21.0	10.8
1.75V/cell	415.8	336.0	296.1	227.9	172.2	139.7	81.2	57.9	47.9	39.3	26.3	21.3	10.8
1.70V/cell	441.0	352.8	308.7	236.1	177.1	142.9	82.4	58.7	48.3	39.8	26.5	21.6	10.9
1.67V/cell	466.2	369.6	321.3	240.2	179.4	144.3	83.1	59.0	48.6	40.0	26.7	21.8	11.0
1.60V/cell	491.4	378.0	327.6	245.8	182.3	146.4	83.6	59.3	48.9	40.2	26.8	21.8	11.1
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	652.5	501.9	453.7	357.1	278.8	238.4	135.9	103.2	87.8	74.0	49.7	41.0	21.5
1.80V/cell	696.3	545.2	488.2	372.6	286.3	239.5	138.4	104.6	88.8	74.8	50.1	41.3	21.7
1.75V/cell	721.7	570.9	509.8	385.3	293.6	240.6	140.7	106.0	89.7	75.5	50.5	41.6	21.8
1.70V/cell	753.5	595.7	528.2	396.3	300.5	245.5	142.9	107.3	90.6	76.2	50.8	41.9	21.9
1.67V/cell	793.1	623.0	537.3	401.4	303.5	247.6	143.8	107.8	90.9	76.3	50.9	42.3	22.0
1.60V/cell	799.7	627.2	541.0	407.5	306.3	249.3	145.0	108.5	91.1	76.5	51.0	42.7	22.1

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APPLICATIONS

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

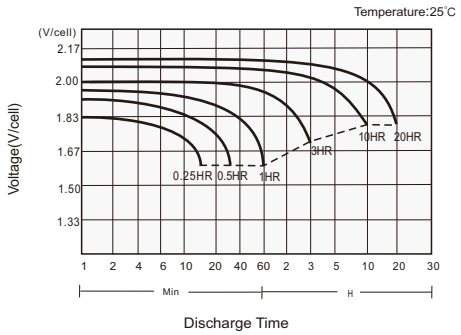
GENERAL FEATURES

- 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

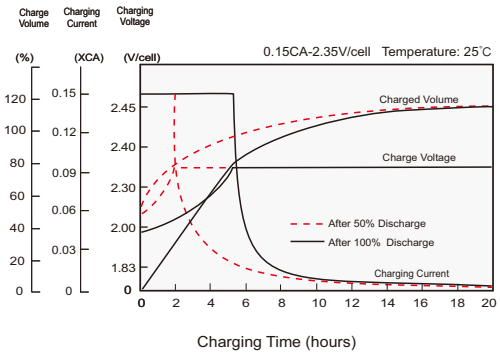
STANDARDS

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

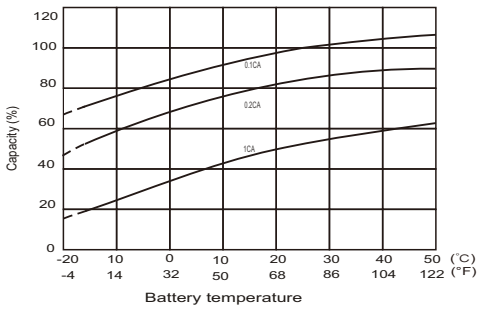
Discharge Characteristics



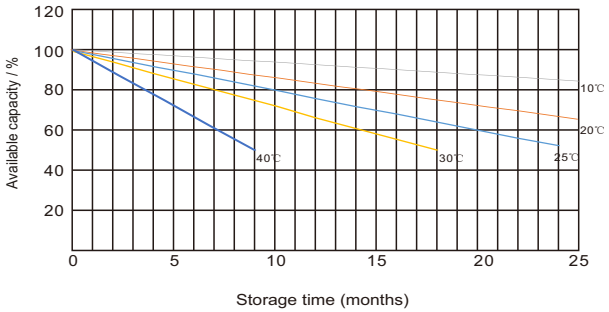
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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