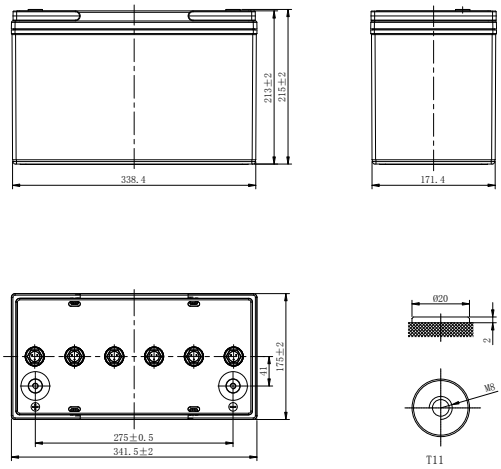
PLH+C-PURE LEAD CARBON

PLH+C 100 (12V100Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{10},1.80V/cell	100Ah
	C_8,1.75V/cell	100Ah
Dimension	Length	341.5mm (13.4inches)
	Width	175mm (6.89inches)
	Container Height	213mm (8.39inches)
	Total Height	215mm (8.46inches)
Approx Weight		31.2kg (68.8lbs)
Terminal		T11(M8)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		2000A
Internal Resistance (25℃)		Approx 3.5 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	182.0	145.4	124.4	94.0	72.0	59.0	35.0	26.4	21.8	18.4	12.2	9.93	5.35
1.80V/cell	202.0	159.2	134.9	100.0	76.0	62.0	36.0	27.1	22.3	18.7	12.4	10.0	5.48
1.75V/cell	220.8	171.7	144.1	106.0	80.0	65.0	37.0	27.7	22.5	19.0	12.5	10.3	5.59
1.70V/cell	237.5	182.4	151.9	112.0	82.7	67.0	38.0	28.3	22.8	19.3	12.8	10.5	5.67
1.67V/cell	246.4	187.8	155.7	114.0	85.3	69.0	39.0	29.0	23.0	19.4	12.9	10.5	5.70
1.60V/cell	260.7	195.3	160.3	118.0	89.3	71.0	39.5	29.3	23.3	19.5	13.0	10.7	5.70
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	344.6	278.8	236.1	183.0	143.3	117.5	67.6	52.1	42.3	36.4	24.2	19.8	10.6
1.80V/cell	389.4	306.8	256.3	198.6	152.3	122.9	70.4	53.2	43.8	36.9	24.5	20.0	10.9
1.75V/cell	419.4	326.2	271.3	205.8	158.3	126.2	71.9	54.1	44.2	37.5	24.8	20.3	11.0
1.70V/cell	431.9	337.3	283.6	210.8	161.0	127.7	73.1	54.8	44.6	38.0	25.1	20.5	11.1
1.67V/cell	456.4	349.9	289.5	216.8	165.0	131.2	73.7	55.1	45.2	38.2	25.2	20.6	11.2
1.60V/cell	467.8	358.4	298.2	224.2	167.7	132.5	74.4	55.6	45.3	38.5	25.4	20.9	11.3

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APPLICATIONS

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

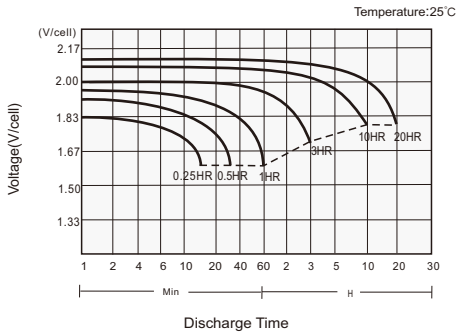
GENERAL FEATURES

- 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

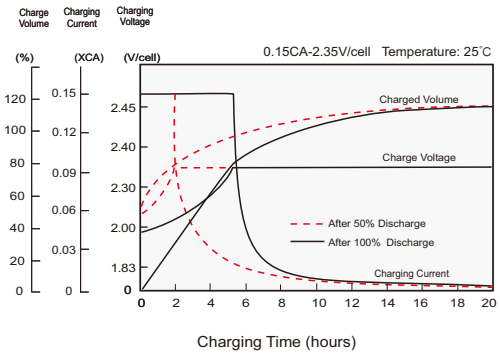
STANDARDS

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

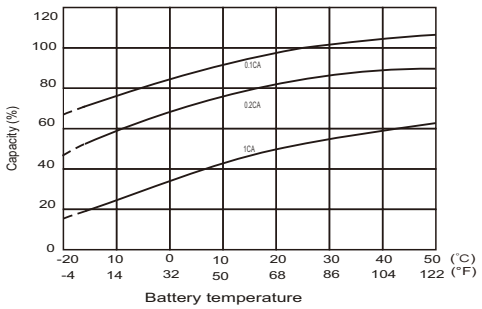
Discharge Characteristics



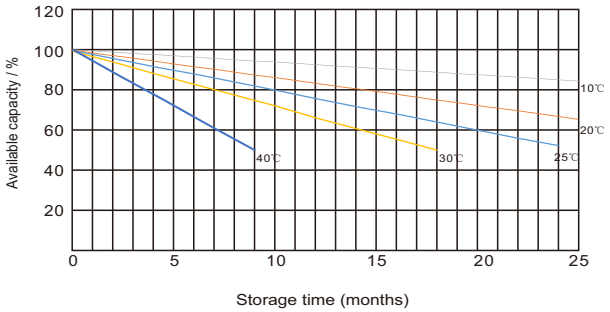
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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