



# PLH+C-Pure Lead Carbon

## PLH+C 100 (12V100Ah)

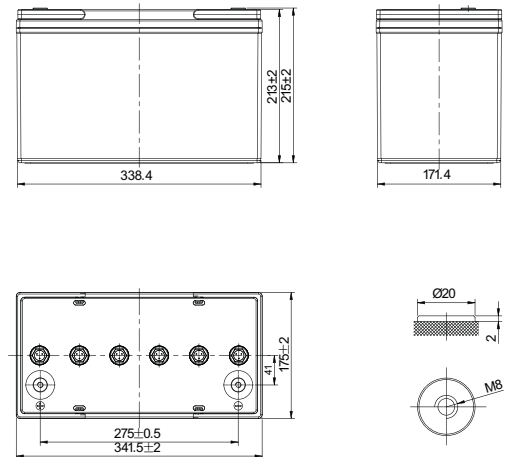


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	100Ah
	C <sub>8</sub> , 1.75V/cell	100Ah
Dimension	Length	341.5±2mm (13.4 inches)
	Width	175±2mm (6.89 inches)
	Container Height	213±2mm (8.39 inches)
	Total Height	215±2mm (8.46 inches)
Approx. Weight	31.2 Kg (68.8 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	100 Ah	(10hr, 10.0A, 1.80V/cell)
	100 Ah	(8hr, 12.5A, 1.75V/cell)
	95.0 Ah	(5hr, 19.0A, 1.75V/cell)
	83.1 Ah	(3hr, 27.7A, 1.75V/cell)
	69.0 Ah	(1hr, 69.0A, 1.67V/cell)
Max. Discharge Current	1250A	
Internal Resistance (25°C)	Approx. 3.5mΩ(Fully charged)	
Operating Temp.Range	-40 ~ 65°C (-40 ~ 149°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	Normal Charge 0.3C	
Charge voltage(25°C)	Float	13.62V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	14.1~14.4V
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	<p>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.</p> <p>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.Storage temp. advised: 0 - 40°C</p>	



### Layout



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

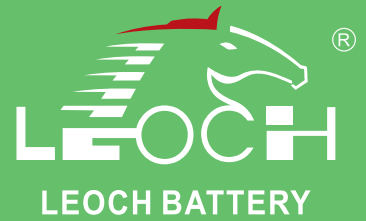
F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	182.0	145.4	124.4	94.0	72.0	59.0	35.0	26.4	21.8	18.4	12.2	9.93	5.35
1.80V/cell	202.0	159.2	134.9	100.0	76.0	62.0	36.0	27.1	22.3	18.7	12.4	10.0	5.48
1.75V/cell	220.8	171.7	144.1	106.0	80.0	65.0	37.0	27.7	22.5	19.0	12.5	10.3	5.59
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	10 min	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

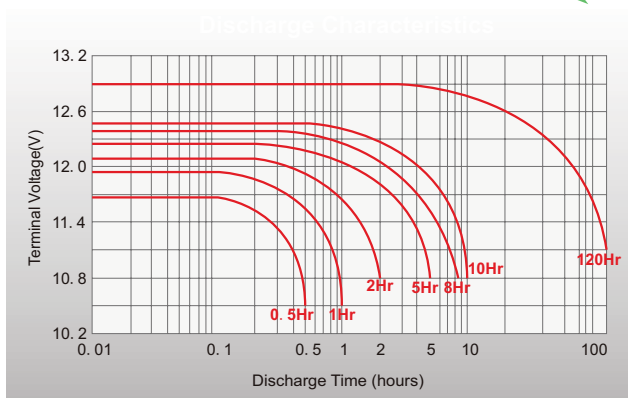
## General Features

- 20 years design life(25°C)
- High energy density
- Low internal resistance and self-discharge rate
- Excellent high rate discharge performance in low temperature

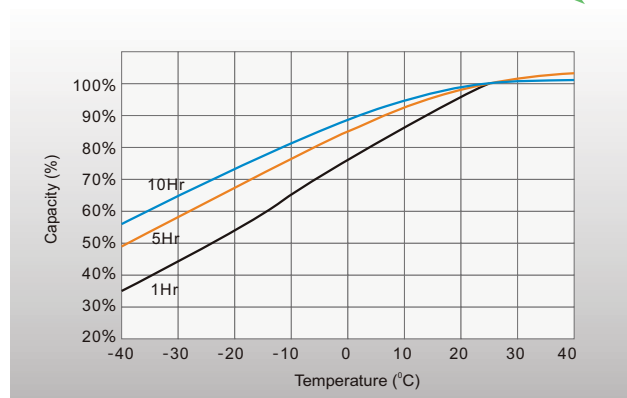
## Standards

- Compliance with IEC 60896 standards
- Manufactured in Leoch@IATF16949, ISO 18001,ISO 9001 and ISO 14001 certified production facilities

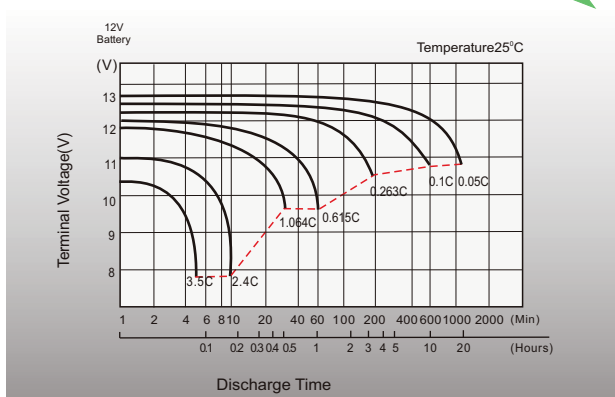
## Discharge Characteristics



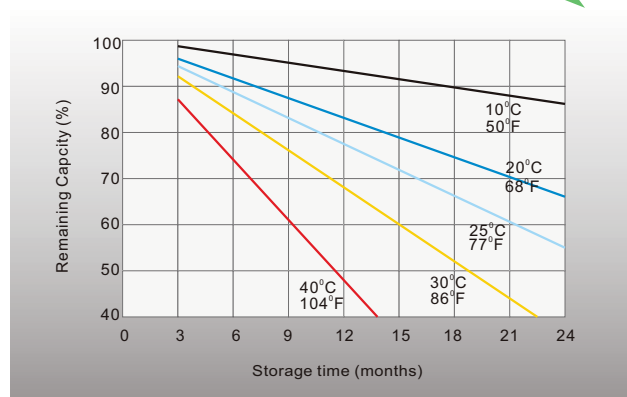
## Temperature in Relation to Capacity



## Discharge Characteristics



## Self-discharge Characteristics



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