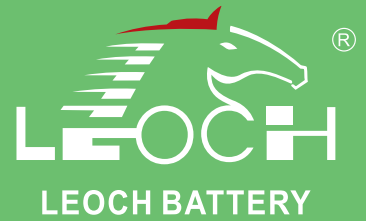




# PLH+C-Pure Lead Carbon

## PLH+C 40FT (12V38Ah)

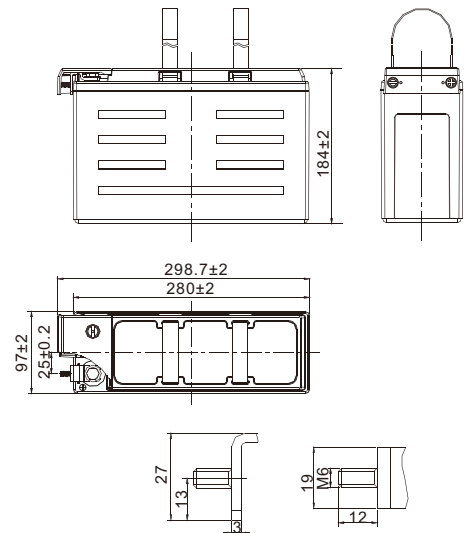


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	38Ah
	C <sub>8</sub> , 1.75V/cell	38Ah
Dimension	Length	298.7±2mm (11.76 inches)
	Width	97±2mm (3.82 inches)
	Container Height	184±2mm (7.24 inches)
	Total Height	184±2mm (7.24 inches)
Approx. Weight	12.5 Kg (27.5 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	38.0 Ah	(10hr, 3.80A, 1.80V/cell)
	38.0 Ah	(8hr, 4.75A, 1.75V/cell)
	35.9 Ah	(5hr, 7.18A, 1.75V/cell)
	32.4 Ah	(3hr, 10.8A, 1.75V/cell)
	28.1 Ah	(1hr, 28.1A, 1.67V/cell)
Max. Discharge Current	456A	
Internal Resistance (25°C)	Approx. 4.9mΩ(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



Unit: mm

### 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	72.5	59.7	51.1	40.0	30.5	24.3	14.6	10.4	8.44	6.92	4.60	3.76	2.02
1.80V/cell	79.7	64.7	54.8	42.4	31.9	25.5	14.9	10.6	8.57	7.05	4.69	3.80	2.06
1.75V/cell	87.1	69.8	58.6	44.7	33.4	26.6	15.3	10.8	8.74	7.18	4.75	3.89	2.11
1.70V/cell	93.7	74.2	61.7	46.7	34.6	27.4	15.6	10.9	8.87	7.30	4.81	3.93	2.14
1.67V/cell	97.2	76.4	63.3	47.6	35.1	28.1	15.7	11.0	8.91	7.30	4.86	3.93	2.15
1.60V/cell	103.7	80.0	65.7	48.9	35.8	28.4	15.9	11.2	9.04	7.39	4.94	4.01	2.17

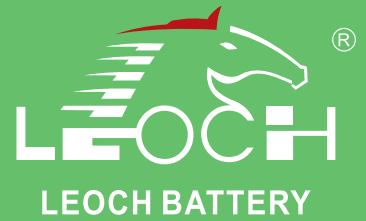
### Constant Power Discharge (Watts/cell) at 25 °C (77° F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	140.8	112.8	97.0	75.2	57.5	48.2	27.6	20.5	16.6	13.8	9.13	7.46	3.99
1.80V/cell	153.2	120.6	104.2	79.2	59.8	50.3	28.4	20.8	16.9	13.9	9.21	7.59	4.11
1.75V/cell	159.4	124.0	106.2	81.2	61.0	50.9	28.8	21.1	17.2	14.1	9.34	7.67	4.17
1.70V/cell	166.1	131.1	109.3	83.0	62.2	51.0	29.1	21.4	17.4	14.3	9.46	7.75	4.21
1.67V/cell	173.4	135.9	112.7	85.3	63.6	51.3	29.6	21.5	17.5	14.4	9.50	7.79	4.25
1.60V/cell	178.8	139.0	112.8	86.5	64.3	51.8	29.8	21.7	17.6	14.5	9.58	8.02	4.26



# PLH+C-Pure Lead Carbon

## PLH+C 40FT (12V38Ah)



### Applications

- Backup Power
- Telecom base station with unstable mains

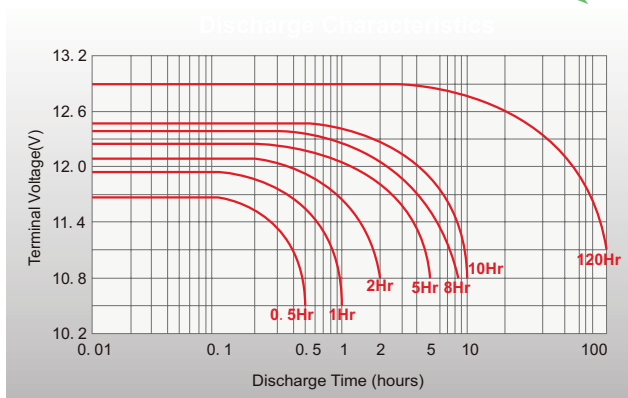
### General Features

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

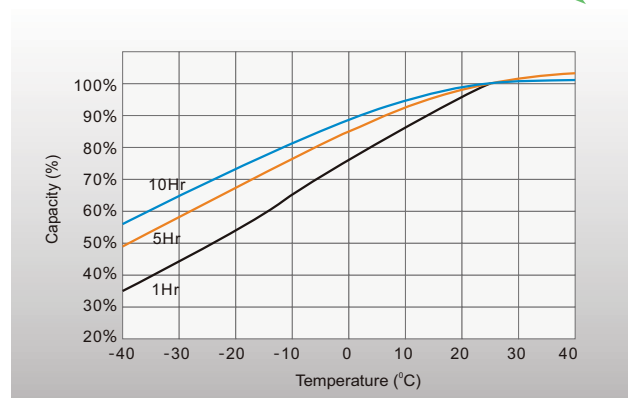
### Standards

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

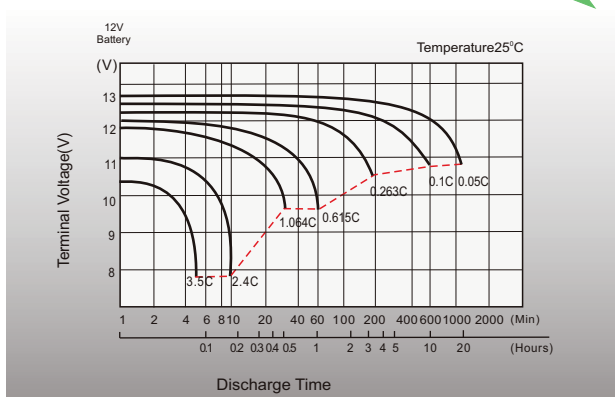
### Discharge Characteristics



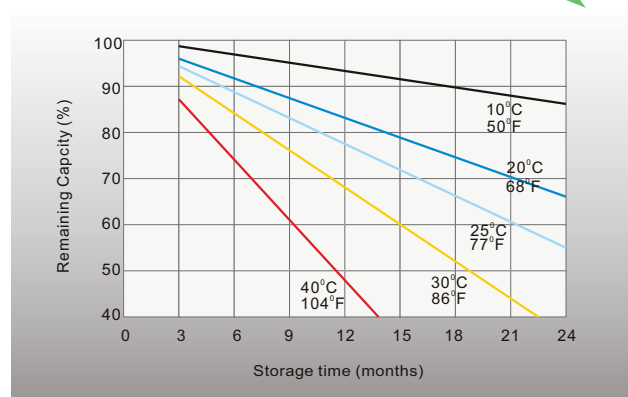
### Temperature in Relation to Capacity



### Discharge Characteristics



### Self-discharge Characteristics



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