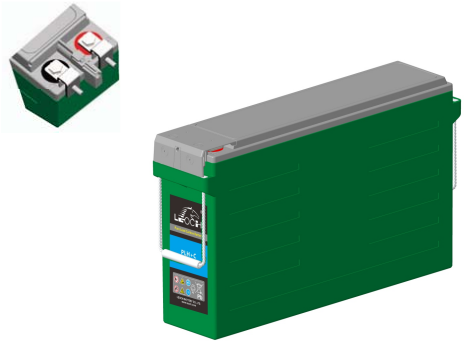
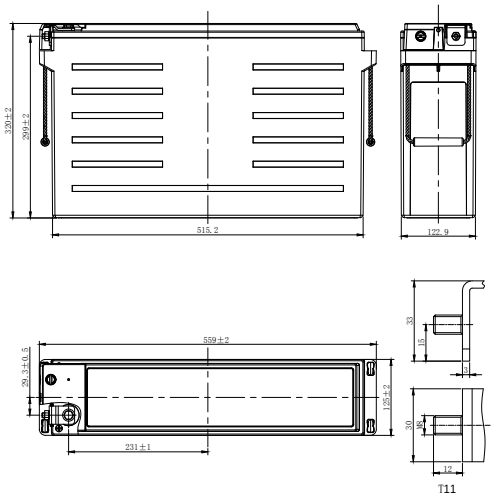
PLH+C-PURE LEAD CARBON

PLH+C 170FT (12V170Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25℃)	C_{10},1.80V/cell	170Ah
	C_8,1.75V/cell	170Ah
Dimension	Length	559mm (22.0inches)
	Width	125mm (4.92inches)
	Container Height	320mm (12.6inches)
	Total Height	320mm (12.6inches)
Approx Weight		54.2kg (119.5lbs)
Terminal		T11(M8)
Container Material		PC-ABS (UL94 V-0)
Short-circuit current		3400A
Internal Resistance (25℃)		Approx 3.2 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	246.9	212.2	185.3	144.2	110.6	98.6	57.0	42.5	35.7	31.6	20.2	16.8	8.67
1.80V/cell	272.3	233.8	200.9	154.9	117.9	103.7	59.5	44.2	37.0	32.6	20.8	17.0	8.76
1.75V/cell	294.9	249.9	212.9	161.9	122.6	108.8	61.2	45.3	38.3	33.3	21.3	17.3	8.84
1.70V/cell	313.6	263.7	223.0	167.7	126.4	112.2	62.9	46.5	39.1	33.7	21.7	17.7	8.93
1.67V/cell	322.6	270.6	228.0	170.5	128.2	115.6	64.6	47.6	40.0	34.0	22.1	17.9	9.01
1.60V/cell	336.0	281.3	235.7	174.9	130.9	119.0	65.5	48.2	40.4	34.7	22.3	18.0	9.10
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	482.6	409.8	358.4	281.3	217.3	196.4	119.6	94.7	77.0	64.1	42.8	35.0	18.8
1.80V/cell	522.9	444.9	388.4	302.6	232.6	200.6	125.7	96.8	78.9	65.7	43.9	36.1	19.3
1.75V/cell	559.0	466.1	406.6	313.2	239.6	204.7	128.7	98.0	79.8	66.5	44.5	36.2	19.6
1.70V/cell	589.6	483.4	420.7	321.4	245.0	208.5	130.6	98.9	80.4	66.9	44.6	36.3	19.7
1.67V/cell	604.7	491.5	426.5	325.1	247.6	213.4	131.2	99.1	80.6	67.1	44.8	36.4	19.7
1.60V/cell	629.7	500.5	430.7	327.4	248.4	214.2	131.6	99.2	80.9	67.3	44.9	36.6	19.8

PLH+C-PURE LEAD CARBON

PLH+C 170FT (12V170Ah)

LEOCH BATTERY

APPLICATIONS

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

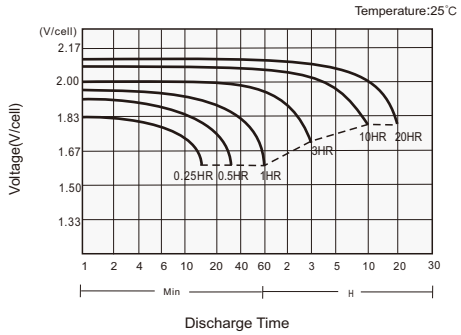
GENERAL FEATURES

- 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

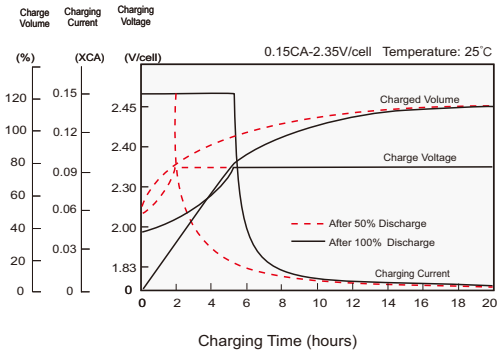
STANDARDS

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

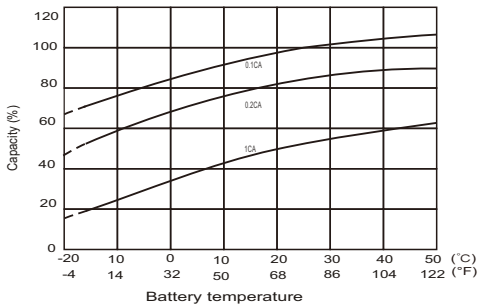
Discharge Characteristics



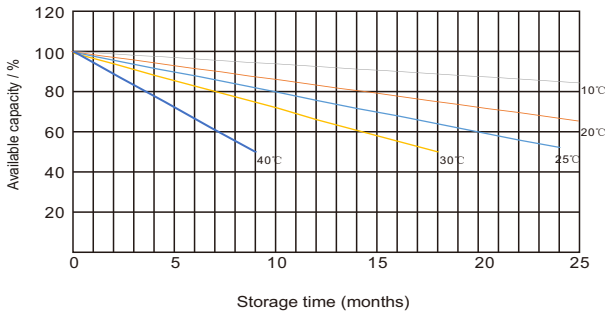
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Leoch International Technology Ltd.
www.leoch.com

Leoch Batteries Pte Ltd
www.leoch.sg

Leoch Battery Corporation
www.leochamericas.com

Leoch Europe S.A.
www.leoch.eu

Data above is recommended and the picture is only for battery effect display, Leoch reserve the final right of explanation.
© LEOCH. All rights reserved.Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.Subject to revisions without prior notice. E&OE.

Publication No.:LB-PLH+C 170FT-PD-EN-V3.0-20250328