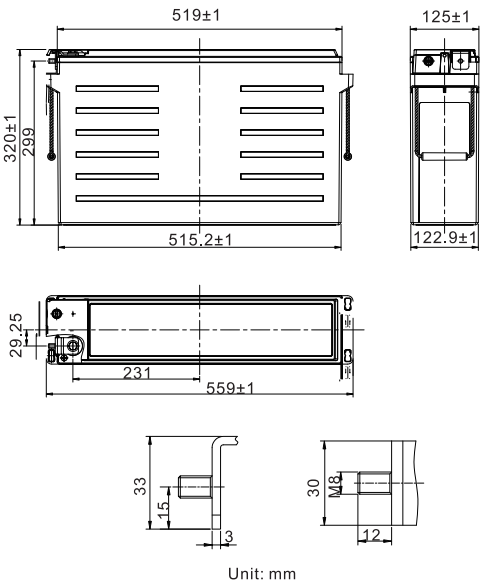
PLH+C-Pure Lead Carbon
PLH+C 170FT (12V170Ah)

LEOCH BATTERY

Specifications

Rated Voltage		12V
Nominal Capacity	C_{10},1.80V/cell	170Ah
	C_8,1.75V/cell	170Ah
Dimension	Length	559±1mm (22.01 inches)
	Width	125±1mm (4.92 inches)
	Container Height	320±1mm (12.6 inches)
	Total Height	320±1mm (12.6 inches)
Approx. Weight		54.2 Kg (119.5 lbs)
Terminal		M8
Container Material		PC-ABS flame retardant jar and cover to UL94 V-0
Rated Capacity (25°C)	170.0 Ah	(10hr, 17.0A,1.80V/cell)
	170.4 Ah	(8hr, 21.3A,1.75V/cell)
	166.5 Ah	(5hr, 33.3A,1.75V/cell)
	135.9 Ah	(3hr, 45.3A,1.75V/cell)
	115.6 Ah	(1hr, 115.6A,1.67V/cell)
Max. Discharge Current		2040A
Internal Resistance (25°C)		Approx. 3.2mΩ(Fully charged)
Operating Temp.Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current(25°C)		51.0A
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	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.	

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	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	10 min	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

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LEOCH BATTERY

Applications

- Backup Power
- Grid-connected Energy Storage System
- Off-grid Energy Storage System
- Demand charge reduction
- Time-of-Use bill management

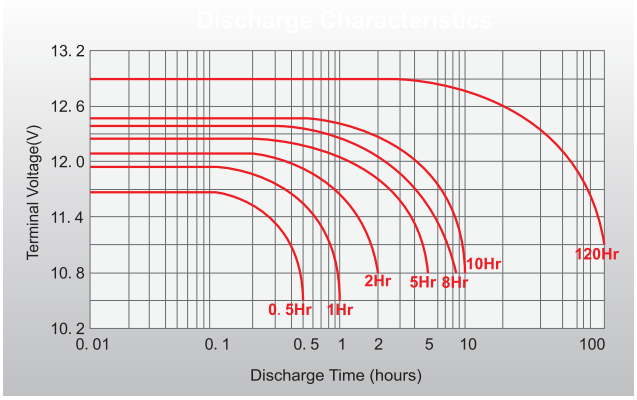
General Features

- High energy density
- Low internal resistance and self-discharge rate
- Excellent fast charging acceptance: 1.5hour to 90% SOC
- Excellent high rate discharge performance in low temperature
- Super high PSoC cycle life

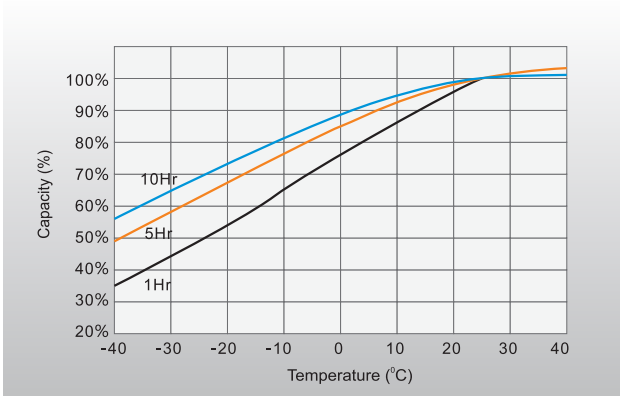
Standards

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

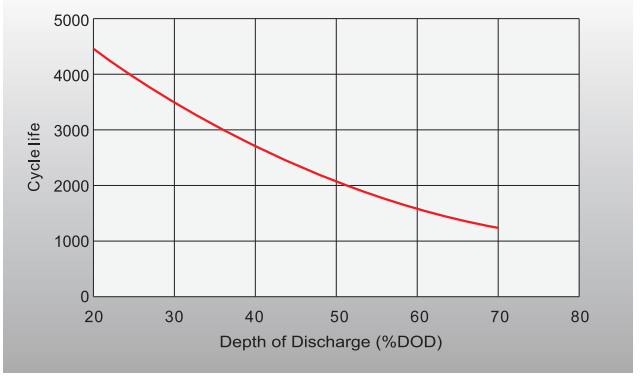
Discharge Characteristics



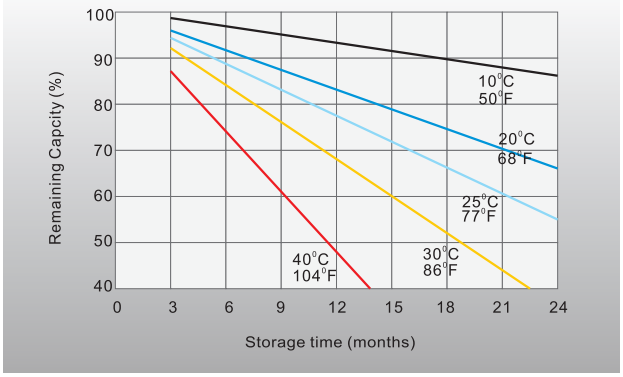
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



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