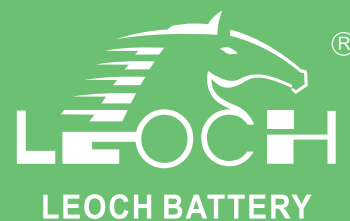




PLH+C-Pure Lead Carbon

PLH+C 150FT (12V150Ah)

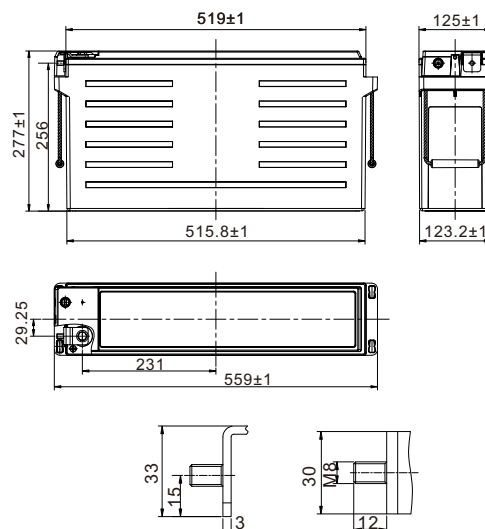


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	150Ah
	C ₈ , 1.75V/cell	150Ah
Dimension	Length	559±1mm (22.01 inches)
	Width	125±1mm (4.92 inches)
	Container Height	277±1mm (10.9 inches)
	Total Height	277±1mm (10.9 inches)
Approx. Weight	48.0 Kg (105.8 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	150.0 Ah	(8hr, 18.8A, 1.75V/cell)
	145.5 Ah	(5hr, 29.1A, 1.75V/cell)
	131.7 Ah	(3hr, 43.9A, 1.75V/cell)
	106.8 Ah	(1hr, 106.8A, 1.67V/cell)
Max. Discharge Current	1800A	
Internal Resistance (25°C)	Approx. 3.6mΩ(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)	45.0A	
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	236.0	190.7	165.2	136.6	110.0	94.5	56.5	41.7	32.6	27.7	17.9	14.7	7.65
1.80V/cell	260.9	208.0	177.2	145.1	116.0	99.0	58.6	43.1	33.7	28.5	18.5	15.0	7.80
1.75V/cell	282.1	222.0	187.5	151.6	120.0	102.0	59.9	43.9	34.3	29.1	18.8	15.3	7.88
1.70V/cell	298.7	234.1	196.1	157.1	124.0	105.0	60.9	44.5	34.6	29.4	19.0	15.5	7.91
1.67V/cell	306.7	240.0	200.4	159.8	128.0	106.8	61.3	44.7	34.9	29.6	19.1	15.6	7.95
1.60V/cell	318.0	249.8	207.2	163.6	132.0	108.8	61.8	44.9	35.0	29.8	19.2	15.6	7.98

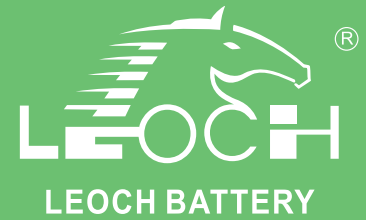
Constant Power Discharge (Watts/cell) at 25 °C (77° F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	472.9	380.6	331.0	276.7	220.2	185.2	115.3	84.7	66.3	56.2	35.9	29.7	15.8
1.80V/cell	512.4	405.9	354.3	292.9	230.2	194.7	119.4	86.5	67.5	57.3	36.4	29.8	16.1
1.75V/cell	547.7	428.2	370.7	303.7	236.5	198.1	121.6	87.9	68.5	58.1	37.0	30.8	16.3
1.70V/cell	577.7	446.6	384.2	312.3	241.0	201.3	123.2	88.8	69.3	58.7	37.4	31.1	16.6
1.67V/cell	592.5	455.5	390.8	316.4	243.6	202.2	123.9	89.2	69.6	58.9	37.6	31.3	16.7
1.60V/cell	616.9	469.8	400.8	322.4	246.4	203.3	124.7	89.7	70.0	59.3	37.8	32.0	16.8



PLH+C-Pure Lead Carbon

PLH+C 150FT (12V150Ah)



Applications

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

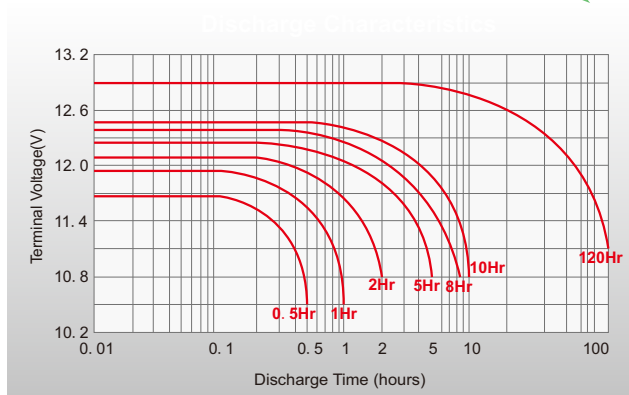
General Features

- 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

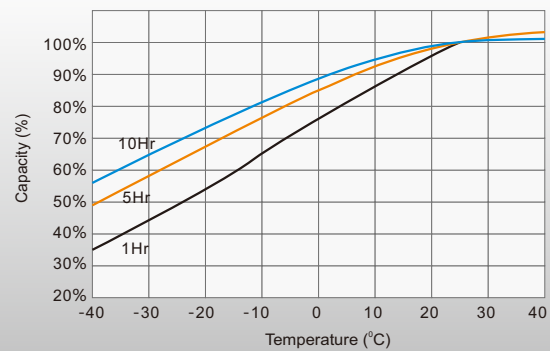
Standards

- Compliance with IEC 60896 standards
- Manufactured in Leoch® IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

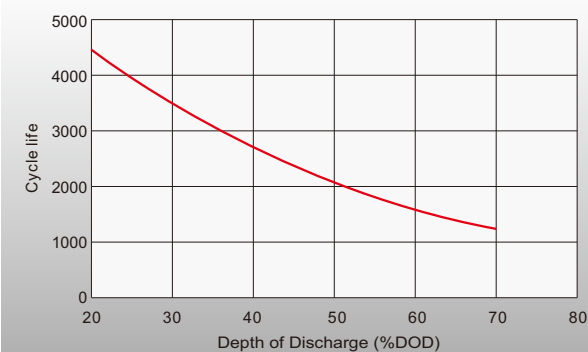
Discharge Characteristics



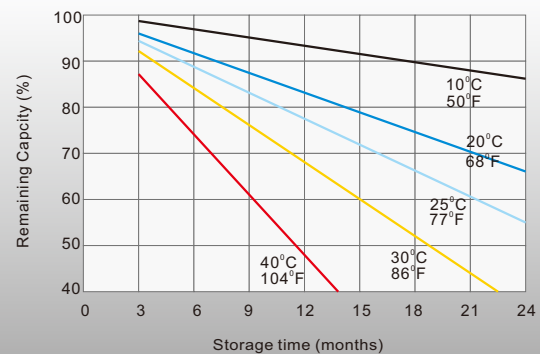
Temperature in Relation to Capacity



Cycle Life vs. Depth of Discharge



Self-discharge Characteristics



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