

PLH+C 150FT(12V150Ah)

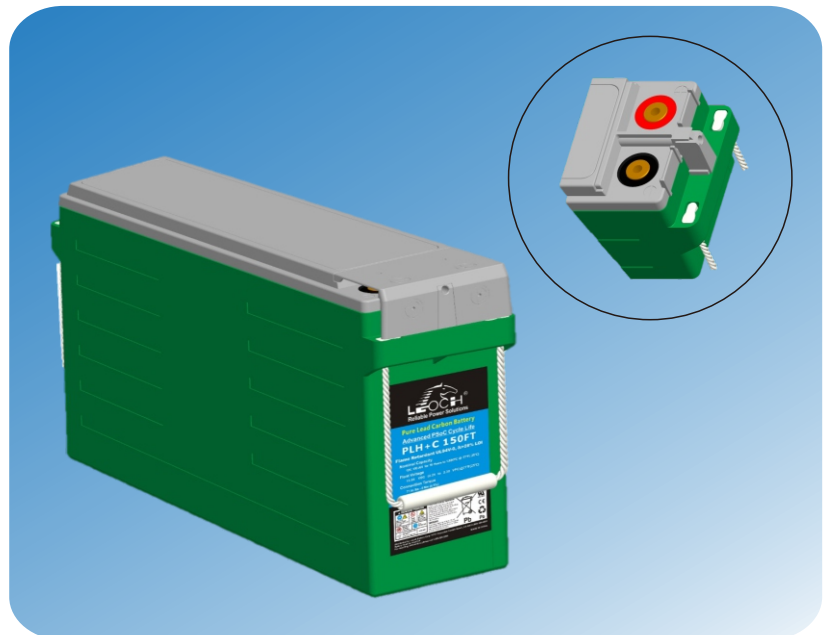
PLH+C SERIES-LONG PSoC LIFE

Applications

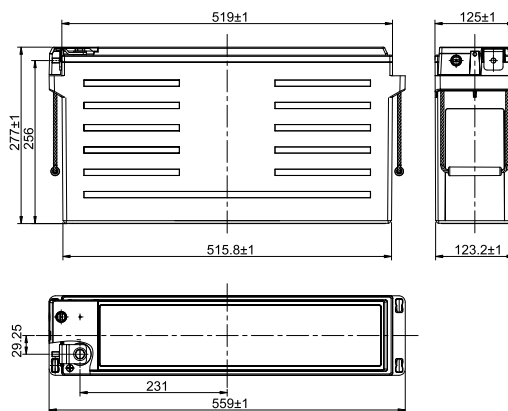
- UPS system
- Backup Power
- Demand charge reduction
- Time-of-Use bill management
- Increased PV self consumption
- Grid-Tied Energy Storage System
- Grid-Zero Energy Storage System

Key Features

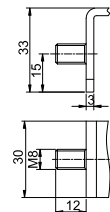
- High energy density
- High-rate performance
- Low internal resistance
- Low self-discharging rate
- Supper high PSoC cycle life
- Excellent Fast charging acceptance:
1 hour to 90% SoC
- Excellent high rate discharge performance
in low temperature
- Advanced lead acid batteries: Pure Lead
Thin Plate Carbon Technology



Layout



Terminal



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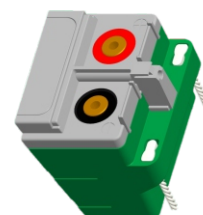
Pure Lead Carbon Technology - PSoC Cycle



PLH+C 150FT(12V150Ah) PLH+C SERIES-LONG PSoC LIFE

Specification

Nominal Voltage	12V
Rated Capacity (Ah)	10hr 150Ah @25 °C to 1.80V/cell
	8hr 150Ah @25 °C to 1.75V/cell
Dimension	Length 559±1mm (22.0 inches)
	Width 125±1mm (4.92 inches)
	Container Height 277±1mm (10.9 inches)
	Total Height (with Terminal) 277±1mm (10.9 inches)
Weight	Approx 48.0Kg (105.8 lbs)
Terminal	T11
Container Material	PC-ABS flame retardant jar and cover to UL94V-0
Max. Discharge Current	1800A (5s)
Internal Resistance	Approx 3.6mΩ
Operating Temp.Range	Discharge : -40~65°C (-40~149°F)
	Charge : 0~40°C (32~104°F)
	Storage : -20~40°C (-4~104°F)
Capacity affected by Temperature	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) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



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	270.5	227.4	197.0	155.6	119.6	97.6	58.0	41.7	32.6	26.9	17.9	14.7	8.01
1.80V/cell	299.0	248.1	211.4	165.3	126.2	102.6	60.2	43.1	33.7	27.7	18.5	15.0	8.16
1.75V/cell	323.3	264.8	223.6	172.7	130.5	105.8	61.5	43.9	34.3	28.2	18.8	15.3	8.32
1.70V/cell	342.4	279.2	233.9	178.9	134.3	108.3	62.5	44.5	34.6	28.5	19.0	15.5	8.40
1.67V/cell	351.5	286.3	239.0	182.0	135.9	109.4	62.9	44.7	34.9	28.7	19.1	15.6	8.48
1.60V/cell	364.5	297.9	247.1	186.3	138.1	111.0	63.4	44.9	35.0	28.9	19.2	15.6	8.48

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

F. V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	542.0	459.6	399.8	319.1	247.1	202.7	119.8	85.8	67.1	55.2	36.3	29.6	15.7
1.80V/cell	587.3	490.3	422.6	333.6	256.0	209.0	122.6	87.6	68.4	56.3	36.9	30.2	16.0
1.75V/cell	627.8	517.3	442.2	345.9	263.6	214.2	124.8	89.0	69.4	57.1	37.5	30.7	16.2
1.70V/cell	662.1	539.6	458.3	355.7	269.4	218.3	126.5	90.0	70.2	57.7	37.9	31.0	16.5
1.67V/cell	679.1	550.5	466.1	360.4	272.1	220.1	127.2	90.4	70.5	57.9	38.1	31.2	16.6
1.60V/cell	707.1	567.8	478.1	367.2	275.9	222.5	128.0	90.9	70.9	58.3	38.3	31.3	16.7

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