

PLH+C 190FT(12V190Ah)

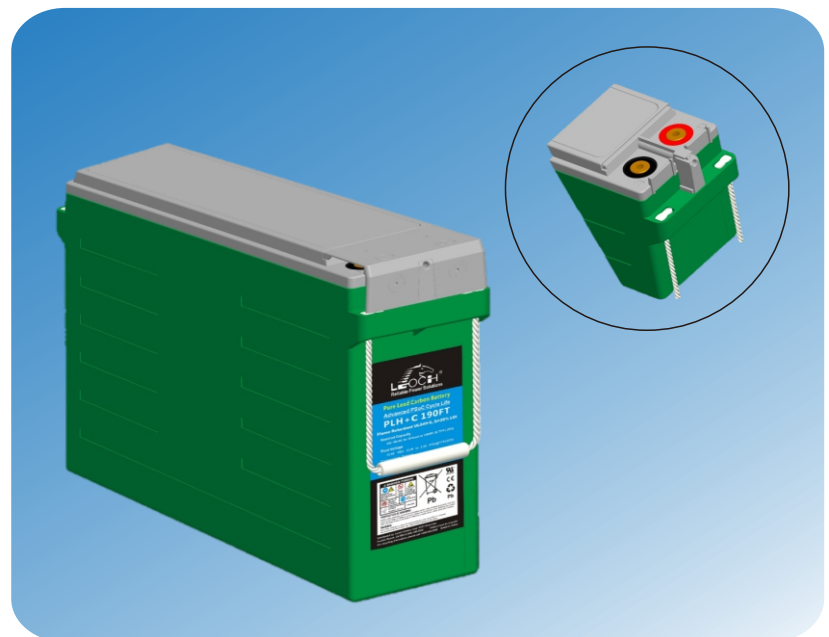
PLH+C SERIES-LONG PSoC LIFE

Applications

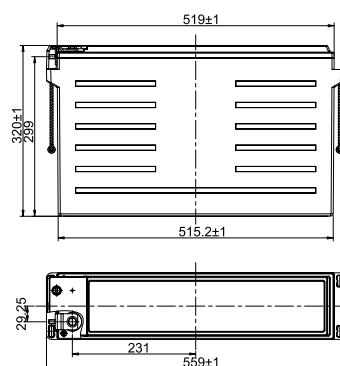
- UPS system
- Backup Power
- Demand charge reduction
- Time-of-Use bill management
- Increased PV self consumption
- Grid-Tied Energy Storage System
- Grid-Zero Energy Storage System

Key Features

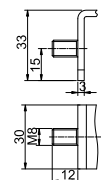
- High energy density
- High-rate performance
- Low internal resistance
- Low self-discharging rate
- Supper high PSoC cycle life
- Excellent Fast charging acceptance:
1.5 hour to 90% SoC
- Excellent high rate discharge performance
in low temperature
- Advanced lead acid batteries: Pure Lead
Thin Plate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



Layout



Terminal



Pure Lead Carbon Technology - PSoC Cycle



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Specification

Nominal Voltage	12V		
Rated Capacity (Ah)	10hr	190Ah @25 °C to 1.80V/cell	
	8hr	190Ah @25 °C to 1.75V/cell	
Dimension	Length	559±3mm (22.00 inches)	
	Width	125±2mm (4.92 inches)	
	Container Height	320±3mm (12.60 inches)	
	Total Height (with Terminal)	320±3mm (12.60 inches)	
Weight	Approx 57.5Kg (126.7 lbs)		
Terminal	T11		
Container Material	PC-ABS flame retardant jar and cover to UL94V-0		
Max. Discharge Current	2280A (5s)		
Internal Resistance	Approx 3.0mΩ		
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	342.7	288.0	249.5	197.1	151.5	123.6	73.5	52.8	41.3	34.0	22.7	18.6	10.1
1.80V/cell	378.7	314.3	267.8	209.4	159.8	130.0	76.3	54.6	42.7	35.1	23.4	19.0	10.3
1.75V/cell	409.5	335.4	283.2	218.8	165.4	134.0	77.9	55.6	43.5	35.7	23.8	19.4	10.5
1.70V/cell	433.7	353.6	296.3	226.6	170.1	137.1	79.1	56.3	43.9	36.1	24.0	19.6	10.6
1.67V/cell	445.3	362.6	302.7	230.5	172.2	138.6	79.7	56.6	44.2	36.3	24.2	19.8	10.7
1.60V/cell	461.6	377.3	313.0	236.0	174.9	140.6	80.3	56.9	44.4	36.5	24.3	19.8	10.7

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	686.5	582.1	506.4	404.2	312.9	256.7	151.8	108.7	85.0	70.0	46.0	37.5	19.9
1.80V/cell	743.9	621.1	535.2	422.6	324.3	264.8	155.3	110.9	86.6	71.3	46.8	38.3	20.3
1.75V/cell	795.2	655.2	560.1	438.1	333.8	271.4	158.1	112.7	88.0	72.4	47.5	38.9	20.6
1.70V/cell	838.6	683.5	580.5	450.6	341.3	276.5	160.2	114.1	89.0	73.1	48.0	39.3	20.9
1.67V/cell	860.2	697.3	590.4	456.5	344.7	278.8	161.1	114.6	89.4	73.4	48.3	39.5	21.0
1.60V/cell	895.7	719.3	605.6	465.2	349.5	281.8	162.1	115.2	89.8	73.8	48.5	39.7	21.2

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