

PLH+C 110FT(12V110Ah)

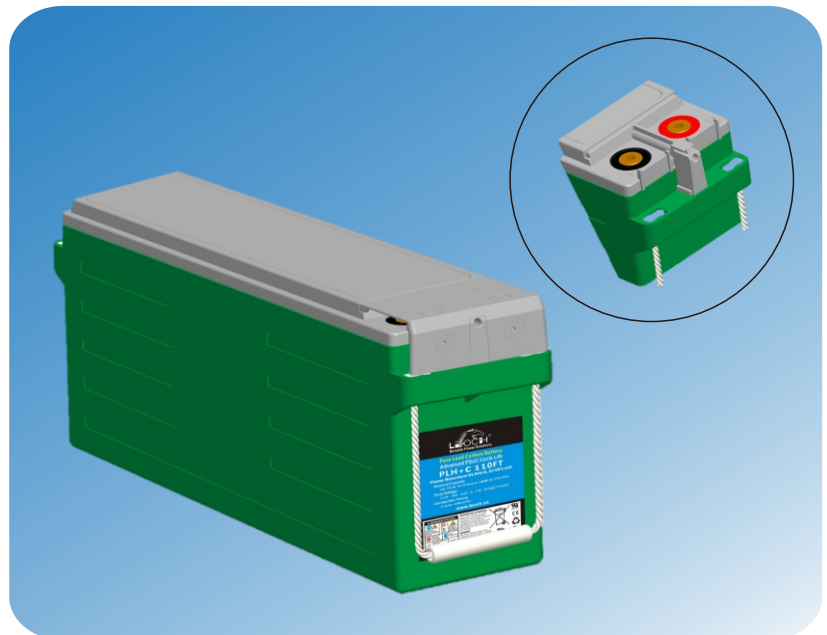
PLH+C SERIES-LONG PSoC LIFE

Applications

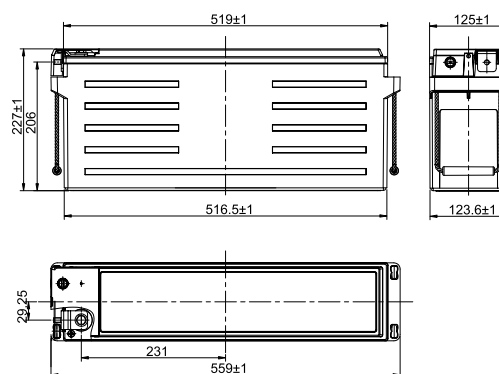
- UPS system
- Backup Power
- Demand charge reduction
- Time-of-Use bill management
- Increased PV self consumption
- Grid-Tied Energy Storage System
- Grid-Zero Energy Storage System

Key Features

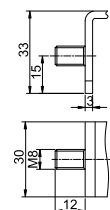
- High energy density
- High-rate performance
- Low internal resistance
- Low self-discharging rate
- Supper high PSoC cycle life
- Excellent Fast charging acceptance:
1.5 hour to 90% SoC
- Excellent high rate discharge performance
in low temperature
- Advanced lead acid batteries: Pure Lead
Thin Plate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



Layout



Terminal



LEOCH INTERNATIONAL TECHNOLOGY LIMITED.

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Pure Lead Carbon Technology - PSoC Cycle



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Specification

Nominal Voltage	12V		
Rated Capacity (Ah)	10hr	110Ah @25 °C to 1.80V/cell	
	8hr	110Ah @25 °C to 1.75V/cell	
Dimension	Length	559±1mm (22.0 inches)	
	Width	125±1mm (4.92 inches)	
	Container Height	227±1mm (8.94 inches)	
	Total Height (with Terminal)	227±1mm (8.94 inches)	
Weight	Approx 36.5Kg (8.05 lbs)		
Terminal	T11		
Container Material	PC-ABS flame retardant jar and cover to UL94V-0		
Max. Discharge Current	1320A (5s)		
Internal Resistance	Approx 4.0mΩ		
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	215.6	177.5	151.8	118.9	90.8	73.9	43.3	31.0	24.3	20.0	13.3	10.8	5.82
1.80V/cell	239.4	194.4	164.7	127.3	95.9	77.6	44.7	31.8	24.8	20.4	13.5	11.0	5.95
1.75V/cell	261.6	209.7	176.0	134.4	100.3	80.5	45.9	32.5	25.2	20.7	13.8	11.2	6.07
1.70V/cell	281.5	222.8	185.5	140.3	103.8	82.8	46.8	32.9	25.5	21.0	13.9	11.3	6.16
1.67V/cell	292.1	229.4	190.1	143.0	105.4	83.9	47.1	33.1	25.7	21.1	14.0	11.3	6.19
1.60V/cell	311.4	240.4	197.3	147.0	107.5	85.4	47.7	33.6	26.1	21.3	14.2	11.6	6.25

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	408.3	339.4	291.9	226.2	177.2	145.1	85.9	61.8	48.5	40.2	26.6	21.8	11.7
1.80V/cell	446.5	366.7	313.0	242.4	186.0	151.1	88.2	63.1	49.4	40.7	27.0	22.1	12.0
1.75V/cell	481.5	391.1	331.3	254.4	193.3	156.2	90.2	64.2	50.2	41.3	27.3	22.4	12.2
1.70V/cell	511.8	411.5	346.3	262.6	198.9	160.2	91.7	65.1	50.7	41.8	27.6	22.7	12.3
1.67V/cell	527.3	421.5	353.4	267.6	201.5	161.8	92.4	65.5	51.0	42.0	27.7	22.8	12.4
1.60V/cell	554.4	437.4	364.1	273.7	204.8	164.0	93.3	66.1	51.5	42.4	27.9	23.0	12.5

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