



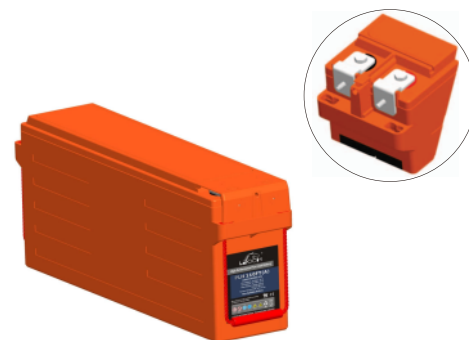
# PLH-Pure Lead Long Standby Life

## PLH110FT(A) (12V110Ah)

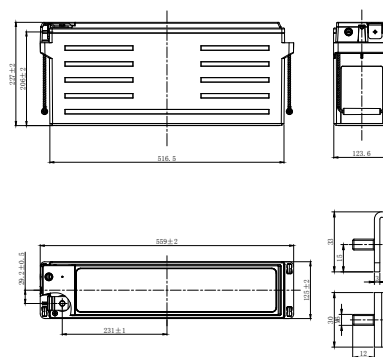


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	110Ah
	C <sub>8</sub> , 1.75V/cell	110Ah
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	227±2mm (8.94 inches)
	Total Height	Total Height 227±2mm (8.94 inches)
Approx. Weight	36.5 Kg (80.3 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	116.0 Ah	(20hr, 5.80A, 1.80V/cell)
	110.0 Ah	(10hr, 11.0A, 1.80V/cell)
	101.0 Ah	(5hr, 20.2A, 1.75V/cell)
	98.1 Ah	(3hr, 32.7A, 1.75V/cell)
	77.1 Ah	(1hr, 77.1A, 1.67V/cell)
Max. Discharge Current	1320A	
Internal Resistance (25°C)	Approx. 4.0mΩ(Fully charged)	
Operating Temp.Range	Discharge	-40 ~ 65°C (-40 ~ 149°F)
	Charge	0 ~ 54°C (32 ~ 129°F)
	Storage	-20 ~ 40°C (-4 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current(25°C)	33.0A	
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 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	213.0	177.7	152.2	121.2	89.1	67.5	43.1	30.6	24.5	20.3	13.1	10.9	5.63
1.80V/cell	239.3	198.8	164.8	127.1	94.1	72.0	44.8	31.9	24.9	20.5	13.4	11.0	5.76
1.75V/cell	260.4	209.4	176.2	135.4	98.4	75.2	46.1	32.7	25.5	20.7	13.8	11.2	5.83
1.70V/cell	280.6	221.5	185.6	140.8	101.0	76.2	47.3	33.3	25.9	21.0	13.9	11.4	5.92
1.67V/cell	296.2	230.6	190.2	145.8	102.5	77.1	47.5	33.9	26.1	21.6	14.1	11.9	5.96
1.60V/cell	312.8	241.2	197.5	147.2	103.5	78.2	47.9	34.3	26.3	21.8	14.3	12.1	6.06

### 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	404.5	340.0	292.9	235.9	175.1	133.7	86.2	61.3	49.5	41.2	26.7	22.2	11.5
1.80V/cell	449.4	375.2	314.0	245.8	183.8	142.0	89.0	63.6	50.0	41.7	27.2	22.4	11.8
1.75V/cell	482.0	391.6	332.8	259.8	191.0	147.3	91.2	64.9	51.1	41.9	28.1	22.8	11.9
1.70V/cell	513.5	409.9	347.2	267.9	194.9	148.5	93.1	65.9	51.8	42.1	28.1	23.1	12.0
1.67V/cell	533.7	423.3	353.1	276.2	196.8	149.7	93.1	66.8	52.0	43.2	28.4	24.0	12.0
1.60V/cell	554.3	434.6	362.5	276.2	197.3	150.4	93.2	67.2	52.2	43.5	28.7	24.3	12.2



# PLH-Pure Lead Long Standby Life

## PLH110FT(A) (12V110Ah)



### Applications

- Telecommunication
- Railway signal
- Alarm and security system
- Power station systems
- Emergency power supply

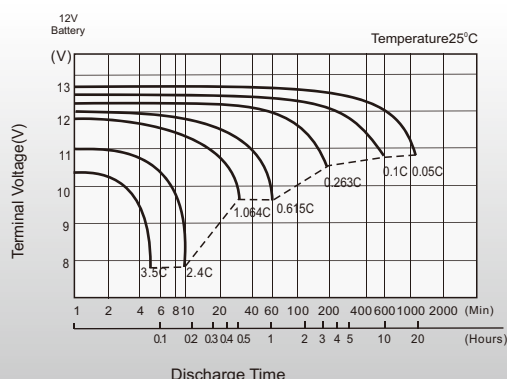
### General Features

- 20 years design life(25°C)
- Premium ABS+PC jar & covers, Flame Retardant to UL94 V-0
- High-rate performance, high energy density
- High quality AGM separators minimize electrical resistance to allow high current discharging properties

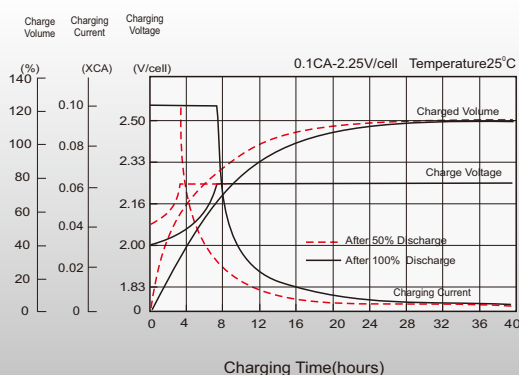
### Standards

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

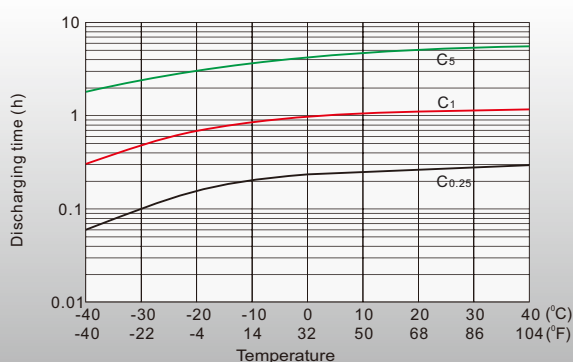
### Discharge Characteristics



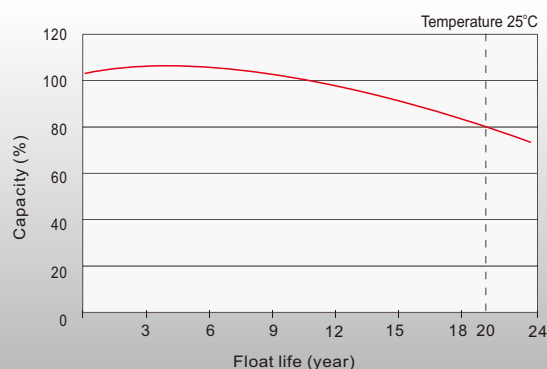
### Float Charging Characteristics



### Effects of Temperature on Discharging Time



### Float Life



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