



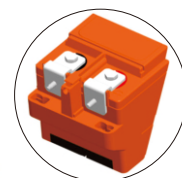
# PLH-Pure Lead Long Standby Life

## PLH210FT(A) (12V210Ah)

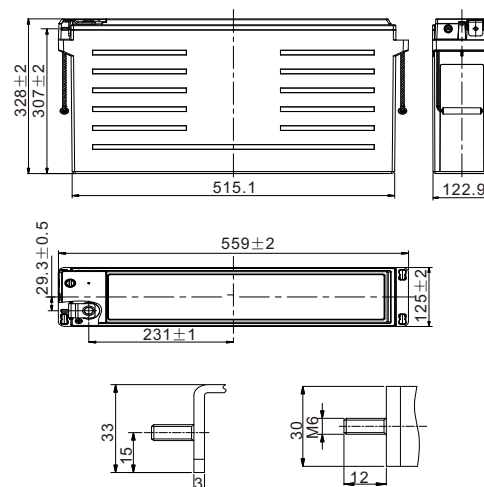


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	210Ah
	C <sub>8</sub> , 1.75V/cell	210Ah
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	328±2mm (12.9 inches)
	Total Height	328±2mm (12.9 inches)
Approx. Weight	60.5 Kg (133.4 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	228.0 Ah	(20hr, 11.4A, 1.80V/cell)
	210.0 Ah	(10hr, 21.0A, 1.80V/cell)
	193.5 Ah	(5hr, 38.7A, 1.75V/cell)
	181.8 Ah	(3hr, 60.6A, 1.75V/cell)
	149.4 Ah	(1hr, 149.4A, 1.67V/cell)
Max. Discharge Current	2520A	
Internal Resistance (25°C)	Approx. 2.9mΩ(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)	63.0A	
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	<p>PLH series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.</p> <p>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.</p>	



### 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	353.9	298.4	270.3	206.5	161.7	129.2	78.6	57.3	43.0	36.5	24.8	20.3	11.1
1.80V/cell	396.1	330.3	298.8	222.5	172.0	136.5	81.4	59.5	44.4	37.8	25.7	21.0	11.4
1.75V/cell	427.4	354.2	318.7	233.0	180.7	143.0	83.2	60.6	45.7	38.7	26.2	21.3	11.6
1.70V/cell	458.2	374.5	332.6	241.8	188.5	147.7	85.4	62.0	46.6	39.4	26.4	21.6	11.7
1.67V/cell	479.6	384.8	345.9	246.0	194.5	149.4	87.0	62.7	46.9	39.9	26.5	21.7	11.8
1.60V/cell	503.3	400.7	355.0	252.6	200.0	152.9	88.4	63.1	47.3	40.3	26.6	21.8	11.8

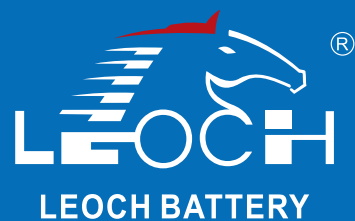
### Constant Power Discharge (Watts/cell) at 25 °C (77° F)

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	674.0	578.0	526.2	409.5	319.8	256.2	157.1	114.5	86.4	73.6	49.5	41.3	22.3
1.80V/cell	745.9	635.0	574.8	439.0	337.8	268.8	161.7	118.4	88.9	75.7	50.5	42.4	22.9
1.75V/cell	799.5	676.0	610.0	462.3	352.3	279.8	164.5	120.3	90.7	77.1	51.5	42.9	23.3
1.70V/cell	843.7	708.6	630.0	481.0	365.2	287.6	168.2	122.5	92.3	78.4	52.4	43.3	23.4
1.67V/cell	864.2	725.0	655.0	488.0	374.8	289.3	170.5	123.5	92.8	79.2	53.0	43.4	23.5
1.60V/cell	882.6	750.8	669.0	500.0	378.2	293.9	172.1	124.0	93.2	79.5	53.1	43.6	23.6



# PLH-Pure Lead Long Standby Life

## PLH210FT(A) (12V210Ah)



### Applications

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

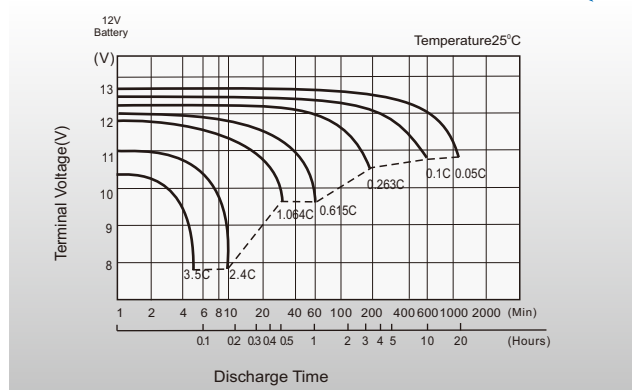
### General Features

- 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

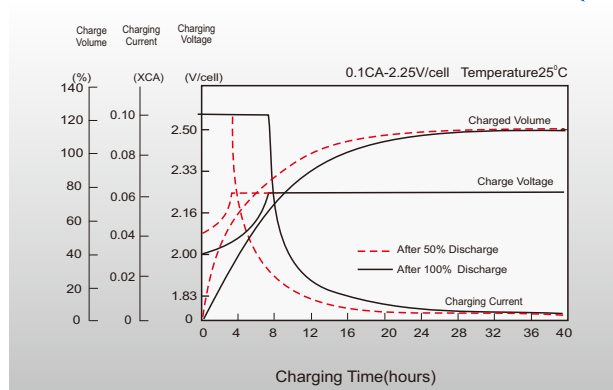
### Standards

- 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

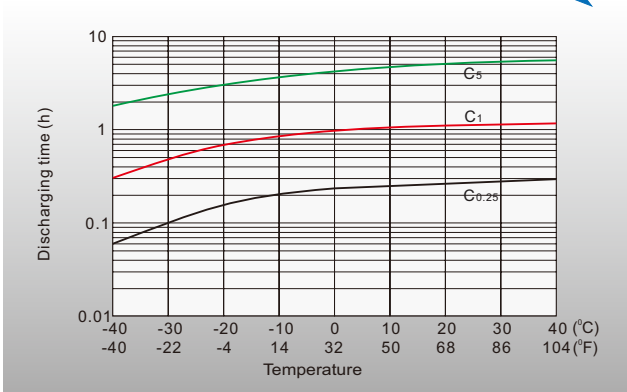
### Discharge Characteristics



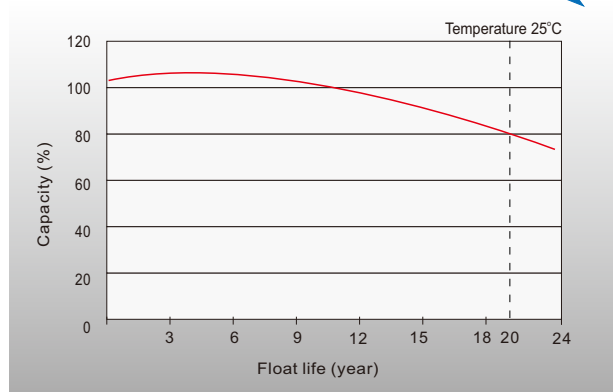
### Float Charging Characteristics



### Effects of Temperature on Discharging Time



### Float Life



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