



PLH-Pure Lead Long Standby Life

PLH170FT(A) (12V170Ah)

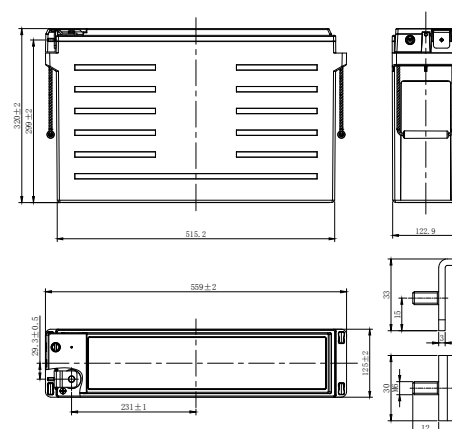


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	170Ah
	C ₈ , 1.75V/cell	170Ah
Dimension	Length	559±2mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±2mm (12.6 inches)
	Total Height	320±2mm (12.6 inches)
Approx. Weight	54.2Kg(119.5lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	184.8 Ah	(20hr, 9.24A, 1.80V/cell)
	170.0 Ah	(10hr, 17.0A, 1.80V/cell)
	162.0 Ah	(5hr, 32.4A, 1.75V/cell)
	151.5 Ah	(3hr, 50.5A, 1.75V/cell)
	129.9 Ah	(1hr, 129.9A, 1.67V/cell)
Max. Discharge Current	2040A	
Internal Resistance (25°C)	Approx. 3.5mΩ(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)	51.0A	
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	314.0	268.1	224.3	180.9	139.4	115.2	66.3	47.8	37.7	30.8	20.3	16.3	8.90
1.80V/cell	337.2	288.5	238.5	193.0	146.7	121.1	68.8	49.5	38.9	31.9	21.0	17.0	9.24
1.75V/cell	372.6	313.2	255.9	203.4	152.9	125.3	70.5	50.5	39.6	32.4	21.3	17.2	9.37
1.70V/cell	408.1	336.6	272.0	212.4	157.9	128.5	71.9	51.4	40.2	32.9	21.5	17.4	9.46
1.67V/cell	425.8	347.5	279.5	216.4	159.9	129.9	72.8	52.1	40.5	33.1	21.7	17.5	9.51
1.60V/cell	450.7	360.6	287.2	219.3	160.7	130.4	72.8	52.1	40.8	33.3	21.8	17.6	9.55

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	577.1	497.0	438.2	360.2	275.1	230.3	132.4	96.8	76.7	62.2	41.0	33.4	18.7
1.80V/cell	610.1	522.1	461.0	378.0	286.0	238.7	136.6	99.5	78.8	63.9	42.2	34.4	19.3
1.75V/cell	661.3	561.1	485.4	393.2	295.2	244.6	139.2	100.0	79.8	64.7	42.7	34.8	19.5
1.70V/cell	710.2	594.2	507.5	406.2	302.1	249.0	141.0	102.1	80.7	65.3	43.1	35.0	19.6
1.67V/cell	731.6	608.0	517.3	411.6	304.5	250.3	142.1	102.9	81.2	65.6	43.2	35.2	19.7
1.60V/cell	758.2	621.9	525.2	414.3	305.4	250.8	142.3	103.0	81.4	65.9	43.4	35.3	19.7



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Applications

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

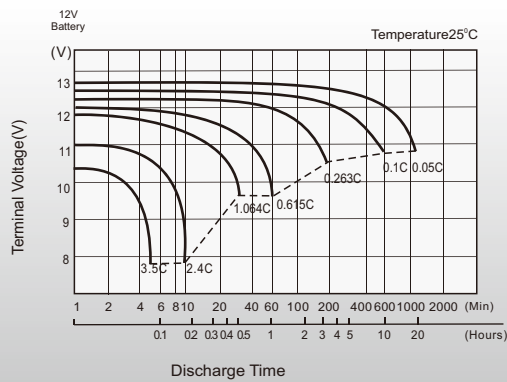
General Features

- 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

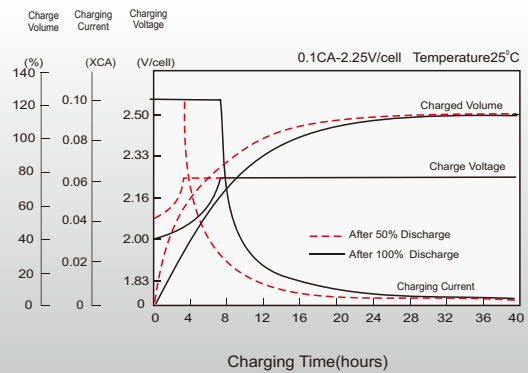
Standards

- 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

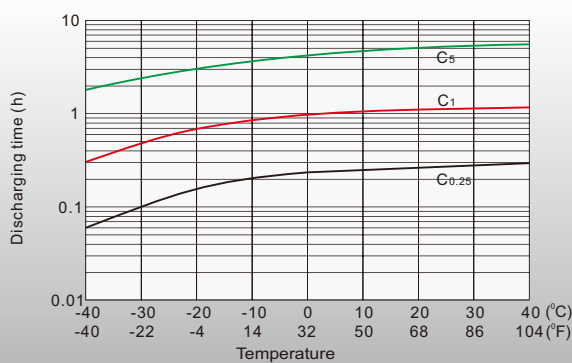
Discharge Characteristics



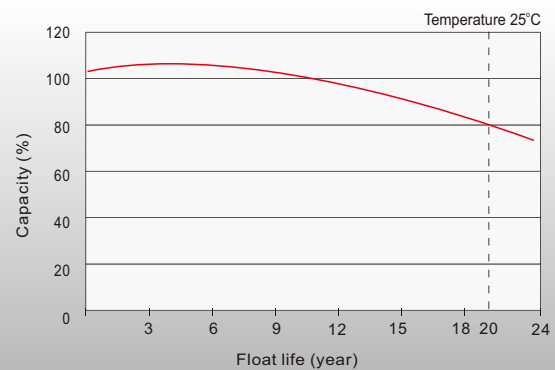
Float Charging Characteristics



Effects of Temperature on Discharging Time



Float Life



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