

# Thin Plate Pure Lead

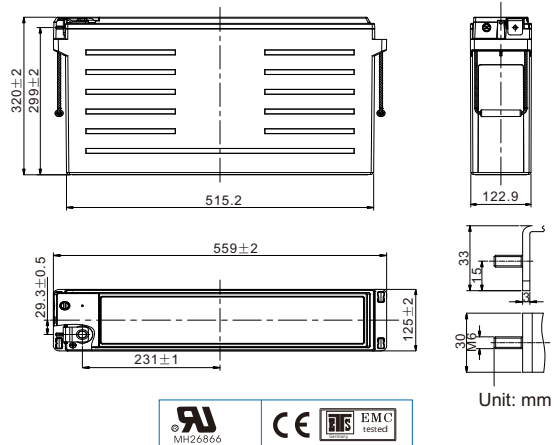


## PLH170FT (12V170Ah)

**PLH SERIES**  
**LONG STANDBY LIFE**

### Specification

Nominal Voltage	12V	
Rated Capacity (Ah)	170Ah	(C <sub>10</sub> , 1.80V/cell, 25°C)
	170Ah	(C <sub>8</sub> , 1.75V/cell, 25°C)
Dimension	Length	559±1mm (22.0 inches)
	Width	125±1mm ( 4.92 inches)
	Height	320±1mm (12.6 inches)
	Total Height (with Terminal)	320±1mm (12.6 inches)
Weight	54.2Kg (119.49 lbs)	
Terminal	Threaded M8 (T11) insert with M6 front terminal adaptor	
Container Material	PC-ABS flame retardant jar and cover to UL94V-0	
Max. Discharge Current	2040A (5s)	
Internal Resistance	Approx 3.5mΩ(Fully charged)	
Operating Temp.Range	Discharge : -40°C ~ 65°C (-40°F ~ 149°F)	
	Charge : 0°C ~ 40°C (32°F ~ 104°F)	
	Storage : -20°C ~ 40°C(-4°F ~ 104°F)	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Storage	<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>	



### 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	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	10min	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	100.9	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

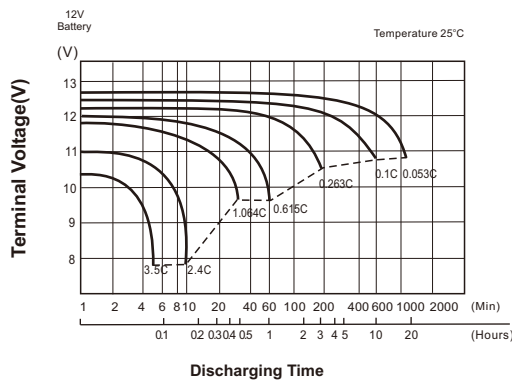
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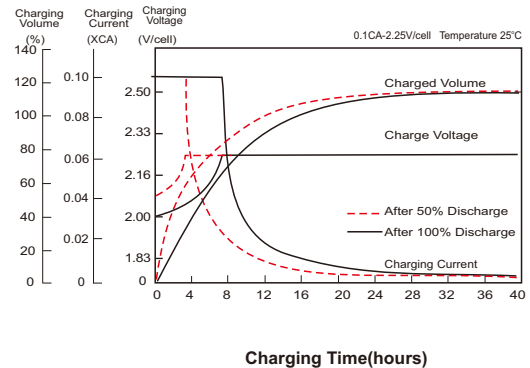
## Features & Benefits

- 20 years design life(25°C)
- Low internal resistance
- Fast Charging Acceptance
- Premium ABS+ jar & covers
- IATA Approved for Air Freight
- Heat sealed plastic container
- UL Recognized, IEC Certified
- Automated COS & TTP welding
- M6 & M8 Terminal adapter options
- Flame Retardant to UL94V-0
- Long Shelf Life up to 2 years @25°C(77°F)
- High-rate performance, high energy density
- Virgin pure lead plates / copper alloy terminal inserts
- Excellent high rate discharge capability for emergency backup power supply.
- High quality AGM separators minimize electrical resistance to allow high current discharging properties.
- Outstanding high rate charge capability with Thin Plate Pure Lead technology

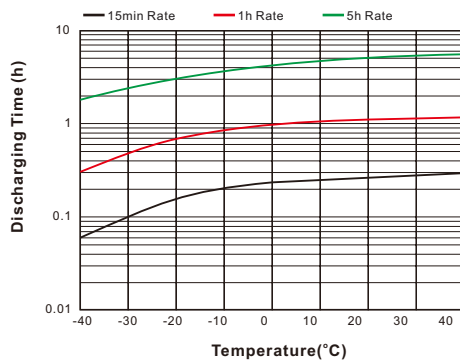
## Discharging Characteristics



## Charging Characteristics



## Effect of Temperature on Discharging Time



## Float Life

