

Thin Plate Pure Lead



PLH100FT (12V100Ah)

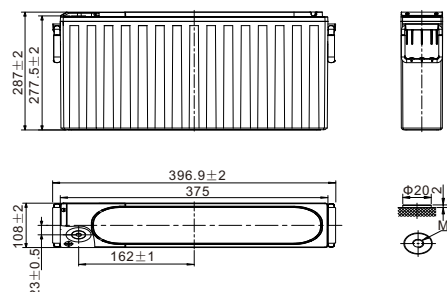
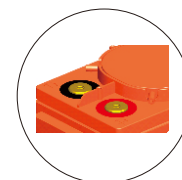
PLH SERIES
LONG STANDBY LIFE

Specification

Nominal Voltage	12V	
Rated Capacity (Ah)	100Ah	(C ₁₀ , 1.80V/cell, 25°C)
	100Ah	(C ₈ , 1.75V/cell, 25°C)
Dimension	Length	397±2mm (13.44 inches)
	Width	108±2mm (6.89 inches)
	Height	287±2mm (8.39 inches)
	Total Height (with Terminal)	287±2mm (8.46 inches)
Weight	31.0Kg (68.8 lbs)	
Terminal	M8	
Container Material	PC-ABS flame retardant jar and cover to UL94V-0	
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 4.5mΩ(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%

PLH series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.

Storage
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.



Unit: mm



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	180.9	152.1	131.3	99.6	72.7	56.7	31.9	23.6	19.5	16.6	11.9	9.91	5.12
1.80V/cell	203.3	170.1	141.4	105.2	75.9	59.5	33.4	24.8	20.3	17.1	12.2	10.0	5.24
1.75V/cell	221.2	179.3	147.8	108.3	77.7	60.9	34.4	25.5	20.7	17.4	12.5	10.2	5.30
1.70V/cell	236.2	189.6	155.2	112.2	79.6	62.2	35.0	26.0	21.0	17.7	12.6	10.4	5.38
1.67V/cell	251.7	199.2	162.3	116.6	82.4	64.1	35.9	26.6	21.5	18.0	12.8	10.8	5.42
1.60V/cell	265.8	208.4	168.9	120.4	84.8	65.8	37.0	27.2	21.9	18.3	13.0	11.0	5.51

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	343.1	290.4	252.7	194.0	158.6	131.7	75.8	54.8	45.4	37.3	24.3	19.9	10.4
1.80V/cell	380.8	321.1	269.4	203.5	164.9	137.4	78.9	57.3	47.0	38.4	24.6	20.3	10.6
1.75V/cell	408.7	335.3	279.3	207.7	167.7	140.0	80.8	58.7	47.9	38.8	24.9	20.4	10.7
1.70V/cell	430.4	350.2	290.4	213.5	170.9	142.1	81.9	59.6	48.4	39.3	25.3	20.4	10.7
1.67V/cell	453.6	364.4	301.1	220.8	175.8	145.8	83.7	60.8	49.3	39.8	25.5	20.5	10.8
1.60V/cell	470.5	375.2	308.8	225.4	179.3	147.2	85.4	61.6	50.0	40.3	25.7	20.5	10.8

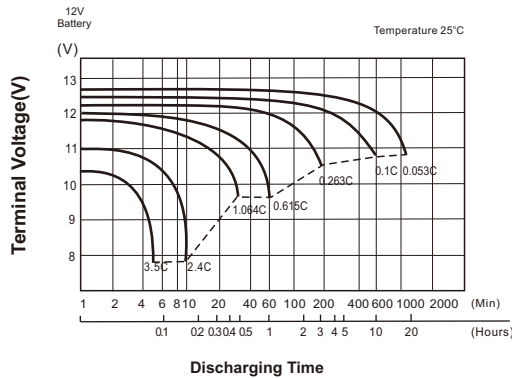
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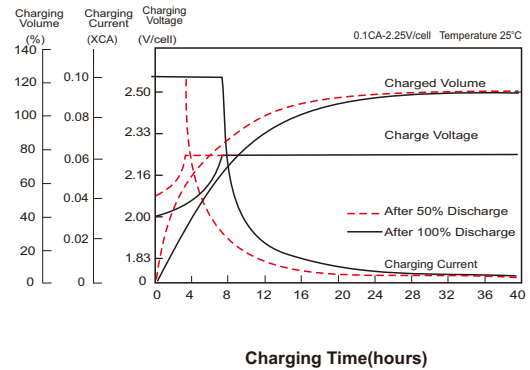
Features & Benefits

- 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
- 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

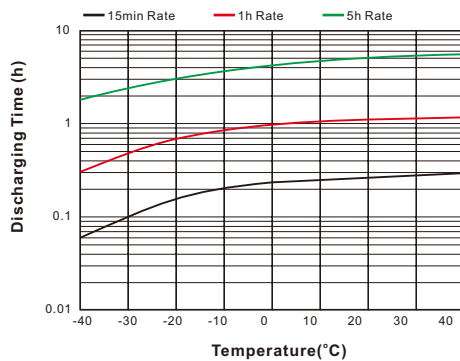
Discharging Characteristics



Charging Characteristics



Effect of Temperature on Discharging Time



Float Life

