



PLH-Pure Lead Long Standby Life

PLH100FT(A) (12V100Ah)

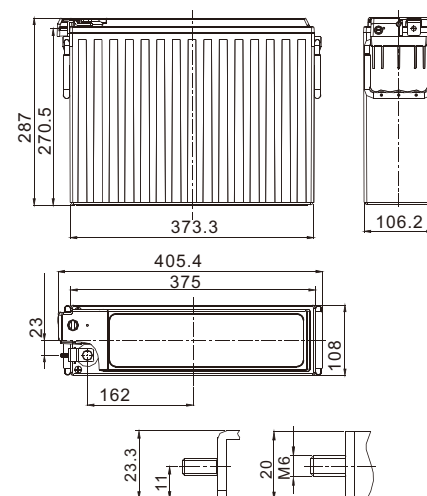


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	100Ah
	C ₈ , 1.75V/cell	100Ah
Dimension	Length	405.4±3mm (15.96 inches)
	Width	108±2mm (4.25 inches)
	Container Height	287±3mm (11.30 inches)
	Total Height	287±3mm (11.30 inches)
Approx. Weight	30.8 Kg (67.9 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	104.8 Ah	(20hr, 5.24A, 1.80V/cell)
	99.1 Ah	(10hr, 9.91A, 1.80V/cell)
	96.0 Ah	(5hr, 19.2A, 1.75V/cell)
	83.4 Ah	(3hr, 27.8A, 1.75V/cell)
	75.1 Ah	(1hr, 75.1A, 1.67V/cell)
Max. Discharge Current	1200A	
Internal Resistance (25°C)	Approx. 4.5mΩ(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)	30.0A	
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.	



外形 Layout



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	180.8	152.1	131.3	99.7	80.3	66.4	38.0	26.2	22.3	18.3	11.9	9.65	5.12
1.80V/cell	204.0	170.1	141.4	105.2	83.9	69.7	39.7	27.4	23.2	18.9	12.2	9.91	5.24
1.75V/cell	221.2	179.3	147.8	108.3	86.0	71.4	40.9	27.8	23.6	19.2	12.5	10.0	5.30
1.70V/cell	236.5	189.6	155.2	112.2	88.2	72.9	41.6	28.0	24.0	19.4	12.5	10.0	5.38
1.67V/cell	251.7	199.3	162.3	116.6	91.0	75.1	42.6	29.3	24.3	19.6	12.5	10.1	5.42
1.60V/cell	268.3	209.6	169.2	120.5	93.9	76.5	44.0	29.9	24.5	19.8	12.6	10.1	5.51

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	343.1	290.4	252.7	194.0	158.6	131.7	75.8	52.8	45.4	37.3	24.3	19.9	10.5
1.80V/cell	380.8	321.1	269.4	203.5	164.9	137.4	78.9	55.3	47.0	38.4	24.6	20.3	10.7
1.75V/cell	408.7	335.3	279.3	207.7	167.7	140.0	80.8	56.0	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	57.6	48.4	39.3	25.4	20.4	10.9
1.67V/cell	453.6	364.4	301.1	220.8	175.8	145.8	83.7	58.8	49.3	39.8	25.5	20.5	11.0
1.60V/cell	470.5	375.2	308.8	225.4	179.3	147.2	85.4	59.6	50.0	40.3	25.5	20.5	11.2



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Applications

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

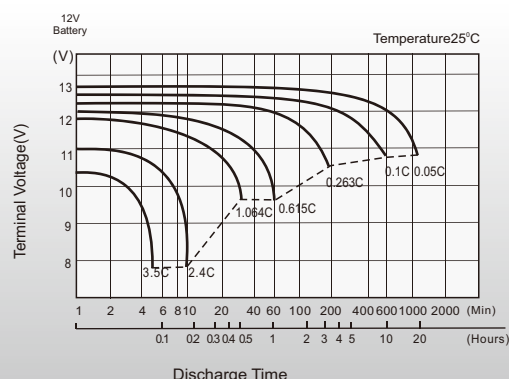
General Features

- 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

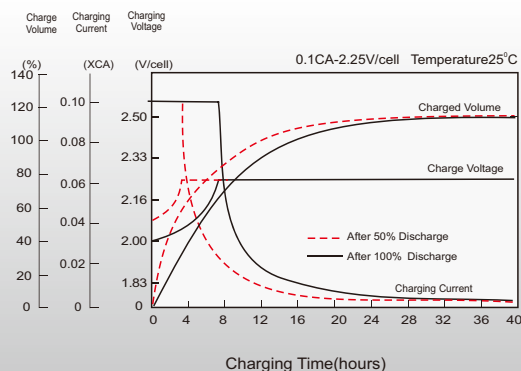
Standards

- 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

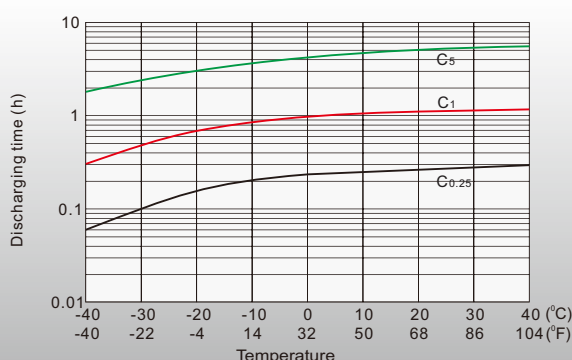
Discharge Characteristics



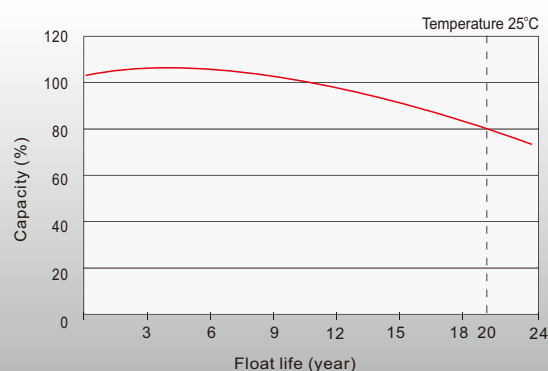
Float Charging Characteristics



Effects of Temperature on Discharging Time



Float Life



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