



# PLH-Pure Lead Long Standby Life

## PLH62FT(A) (12V62Ah)

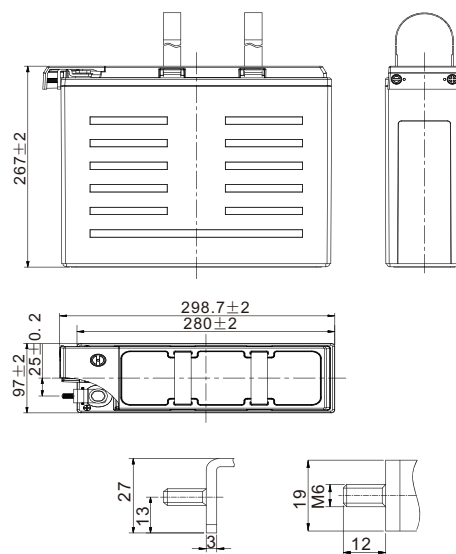


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	62Ah
	C <sub>8</sub> , 1.75V/cell	62Ah
Dimension	Length	298.7±2mm (11.76 inches)
	Width	97±2mm (3.82 inches)
	Container Height	267±2mm (10.51 inches)
	Total Height	267±2mm (10.51 inches)
Approx. Weight	19.5 Kg (43.0 lbs)	
Terminal	M6	
Container Material	PC-ABS flame retardant jar and cover to UL94 V-0	
Rated Capacity (25°C)	64.4Ah	(20hr, 3.22A, 1.80V/cell)
	62.0Ah	(10hr, 6.20A, 1.80V/cell)
	54.0Ah	(5hr, 10.8A, 1.75V/cell)
	49.8Ah	(3hr, 16.6A, 1.75V/cell)
	42.2 Ah	(1hr, 42.2A, 1.67V/cell)
Max. Discharge Current	744A	
Internal Resistance (25°C)	Approx. 5.6mΩ(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)	18.6A	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	120.4	99.4	85.4	65.7	48.5	38.3	21.8	15.5	12.2	10.2	7.40	6.05	3.16
1.80V/cell	134.3	109.2	91.5	69.4	51.0	39.7	22.8	16.3	12.8	10.6	7.60	6.20	3.22
1.75V/cell	142.4	114.3	95.4	71.6	52.4	40.8	23.5	16.6	13.1	10.8	7.75	6.27	3.26
1.70V/cell	150.0	119.1	98.4	73.7	53.5	41.5	23.8	16.9	13.3	11.0	7.80	6.34	3.29
1.67V/cell	162.6	126.5	103.0	75.6	54.3	42.2	24.2	17.2	13.5	11.2	7.86	6.41	3.32
1.60V/cell	171.4	131.9	106.9	77.7	55.4	42.9	24.6	17.3	13.6	11.3	7.91	6.41	3.34

### 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	228.5	190.1	164.4	128.8	96.0	75.9	43.5	31.2	24.7	20.7	14.4	12.3	6.45
1.80V/cell	250.7	206.1	174.3	134.2	100.2	78.2	45.3	32.5	25.7	21.5	14.8	12.6	6.57
1.75V/cell	263.2	213.7	180.3	137.4	102.2	80.0	46.4	33.2	26.2	21.9	15.0	12.7	6.61
1.70V/cell	273.0	220.0	184.1	140.2	103.7	80.9	46.9	33.7	26.6	22.2	15.3	12.8	6.65
1.67V/cell	293.0	231.3	191.1	143.2	104.9	82.0	47.5	34.0	26.9	22.4	15.4	12.9	6.70
1.60V/cell	300.6	236.2	195.1	145.4	105.8	82.6	47.9	34.2	27.0	22.6	15.5	12.9	6.74



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### Applications

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

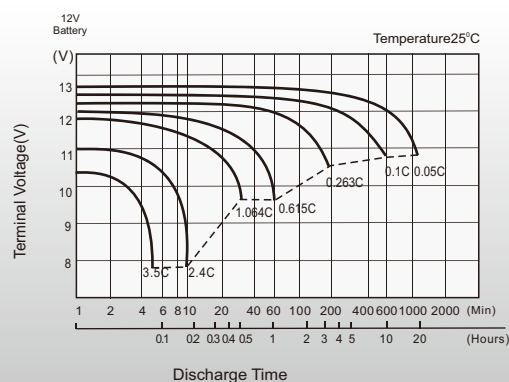
### General Features

- 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

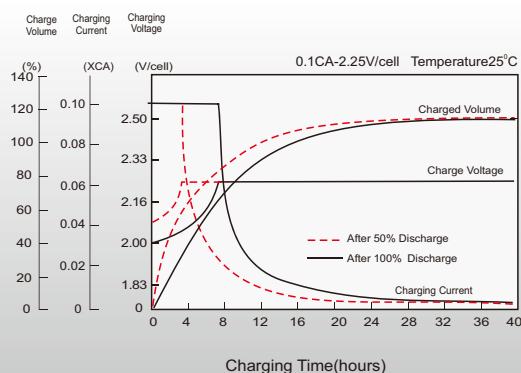
### Standards

- 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

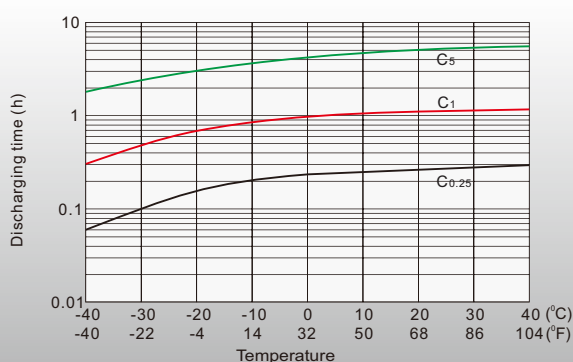
### Discharge Characteristics



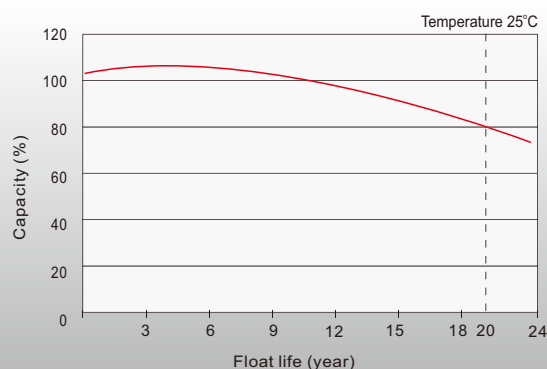
### Float Charging Characteristics



### Effects of Temperature on Discharging Time



### Float Life



distributed by: Power Storage Deutschland GmbH

+49 (0)6081 96582-0

info@psd-power.de

www.psd-power.de



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