



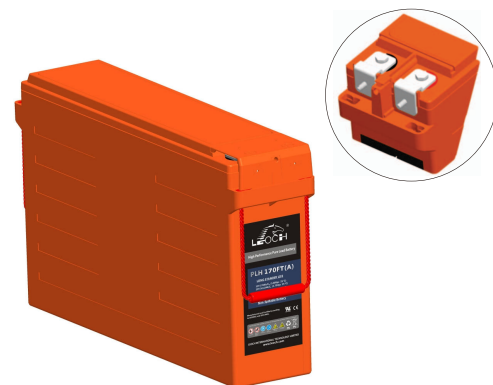
# PLH-Pure Lead Long Standby Life

## PLH170FT(A) (12V170Ah)

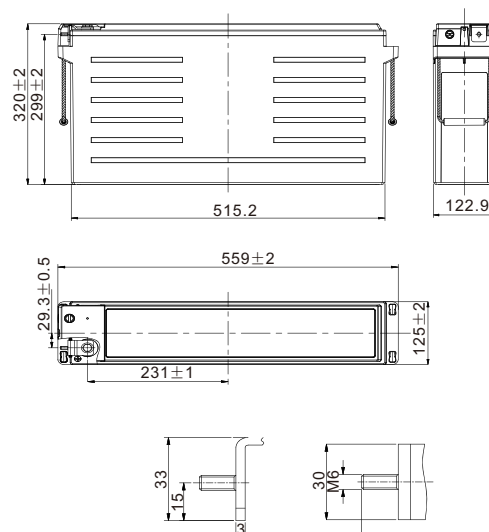


### Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	170Ah
	C <sub>8</sub> , 1.75V/cell	170Ah
Dimension	Length	559±3mm (22.01 inches)
	Width	125±2mm (4.92 inches)
	Container Height	320±3mm (12.6 inches)
	Total Height	320±3mm (12.6 inches)
Approx. Weight	54.8 Kg (120.8 lbs)	
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



# PLH-Pure Lead Long Standby Life

## PLH170FT(A) (12V170Ah)



### Applications

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

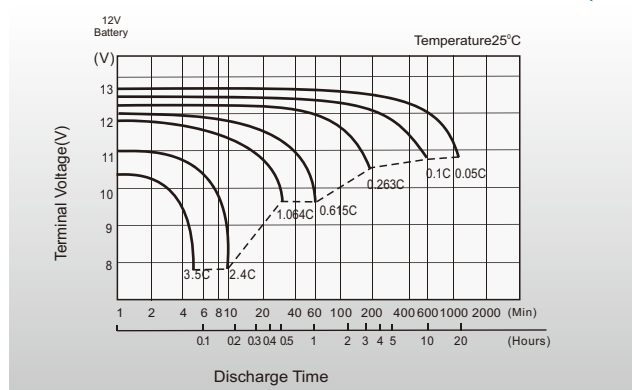
### General Features

- 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

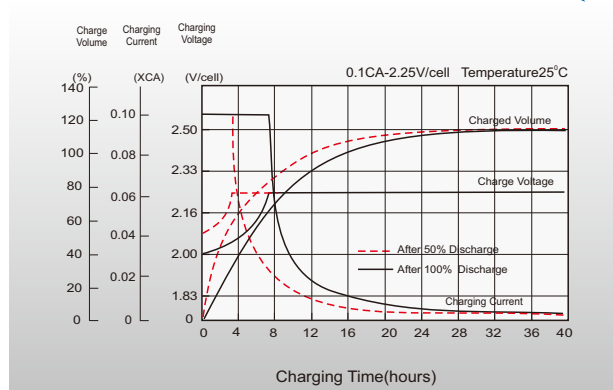
### Standards

- 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

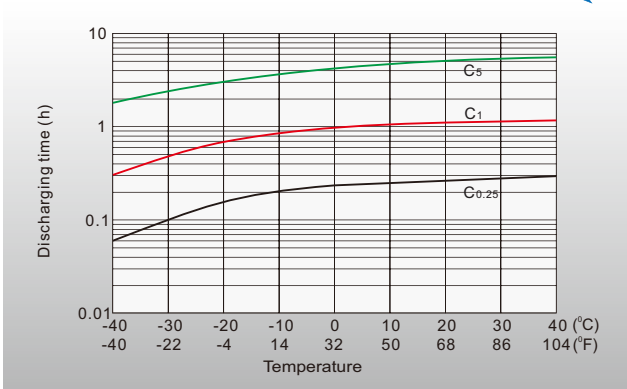
### Discharge Characteristics



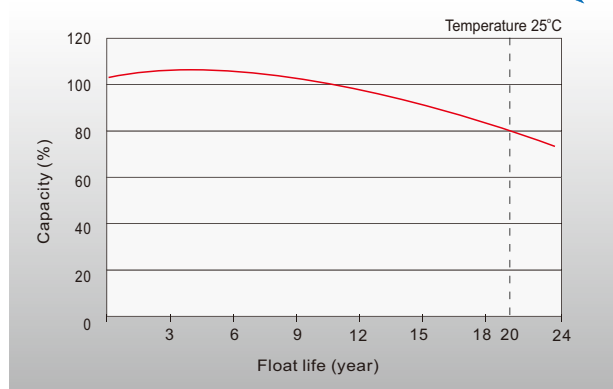
### Float Charging Characteristics



### Effects of Temperature on Discharging Time



### Float Life



## Sales Offices Worldwide

#### China Sales Office

5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com

#### HongKong Sales Office

Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road,  
Tsuen Wan, New Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

#### Singapore Sales Office

No. 1 Tech Park Crescent,  
Singapore 638131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@Leoch.com

#### Australia Sales Office

2 /29 Tarlington Place, Smithfield. NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

#### North America Sales Office

19751 Descartes  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us

#### UK Sales Office

9B Wheatstone Court, Waterwells, Business Park,  
Gloucester, GL2-2AQ, UK United Kingdom  
Tel: +44(0) 1452 729428 / 1452 729696  
Fax: +44 1452 690125  
E-mail: Sales.Europe@leoch.com

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com

#### India Sales Office

Shed no. A-53(b), 2nd Stage of Peenya Industrial Area,  
Bangalore North Taluk, Bangalore-560058, India  
Tel: +91-80-23440018/23440019  
Fax: +91-80-23440017  
E-mail: indiasales@leoch.com



[Http://www.leoch.com](http://www.leoch.com)  
[Http://www.leoch.us](http://www.leoch.us)

© 2021 LEOCH. All rights reserved.

Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.  
Subject to revisions without prior notice.

Publication No.: LB-PLH170FT(A)-PD-EN-V3.4-202101