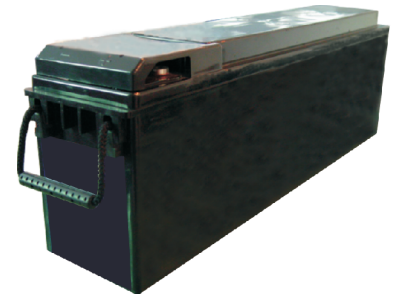


LPF SERIES-Front Terminal

LPF12-70 (12V70AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(8HR)	70.0AH	
Dimension	Length	564±2mm (22.20 inches)
	Width	114±2mm (4.49 inches)
	Container Height	187±2mm (7.36 inches)
	Total Height (with Terminal)	187±2mm (7.36 inches)
Approx Weight	Approx 25.0 Kg (55.1 lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	76.9AH/3.85A	(20hr, 1.80V/cell, 25°C/77°F)
	72.7AH/7.27A	(10hr, 1.80V/cell, 25°C/77°F)
	70.0AH/8.75A	(8hr, 1.80V/cell, 25°C/77°F)
	66.1AH/13.23A	(5hr, 1.75V/cell, 25°C/77°F)
	48.4AH/48.44A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	700A (5s)	
Internal Resistance	Approx 5.2mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 21.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LPF series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ For standard 19 inches or 23 inches power cabinets
- ◆ Network connection equipment of communication system
- ◆ Power system of special network or local area network
- ◆ UPS, standby power supply
- ◆ Power station systems
- ◆ Railway and marine systems



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	121.7	101.5	87.1	68.3	53.0	43.1	25.7	18.5	14.8	12.3	10.7	8.33	6.95	3.68
1.80V/cell	138.0	113.1	96.4	74.7	57.0	46.0	27.1	19.7	15.6	12.9	11.2	8.75	7.27	3.85
1.75V/cell	151.5	122.4	102.9	78.5	59.2	47.6	27.6	20.0	16.0	13.2	11.4	8.86	7.35	3.91
1.70V/cell	162.0	128.9	107.0	80.8	60.5	48.2	28.0	20.2	16.1	13.3	11.6	8.98	7.42	3.93
1.67V/cell	167.7	132.1	109.2	81.9	60.7	48.4	28.1	20.3	16.2	13.4	11.7	9.10	7.49	3.96
1.60V/cell	176.2	137.2	114.1	83.9	62.4	49.7	28.6	20.7	16.6	13.8	11.9	9.31	7.63	3.98

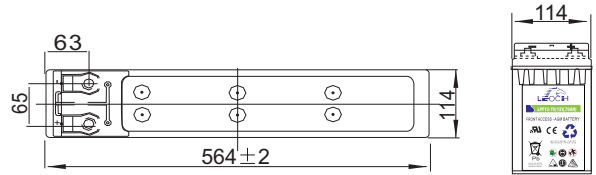
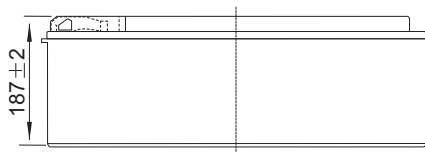
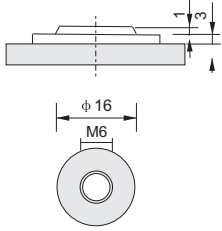
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	227.3	191.4	165.9	131.6	102.9	83.9	50.4	36.4	29.3	24.3	21.2	16.6	13.9	7.37
1.80V/cell	254.7	210.5	181.0	141.8	109.8	89.1	52.8	38.5	30.7	25.5	22.2	17.4	14.5	7.69
1.75V/cell	275.1	225.0	191.3	147.8	112.9	91.8	53.6	39.0	31.4	26.0	22.5	17.6	14.7	7.80
1.70V/cell	287.7	233.7	197.5	151.3	115.1	92.8	54.2	39.3	31.5	26.1	22.7	17.8	14.8	7.85
1.67V/cell	296.5	238.6	200.8	152.9	115.2	93.0	54.3	39.4	31.7	26.3	22.9	18.0	14.9	7.88
1.60V/cell	303.1	242.8	206.8	154.7	116.9	94.4	54.8	40.0	32.2	26.9	23.3	18.4	15.2	7.91

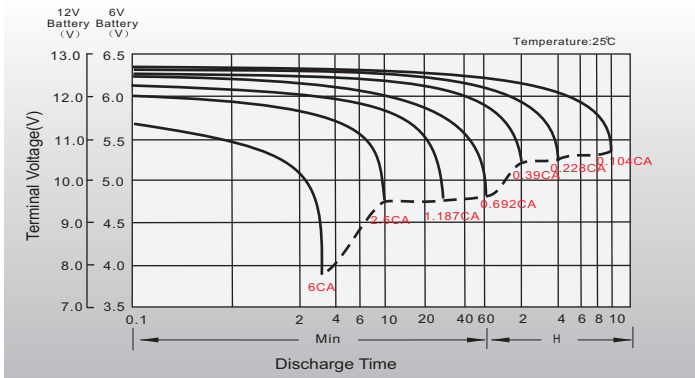
Dimensions

T6 Terminal

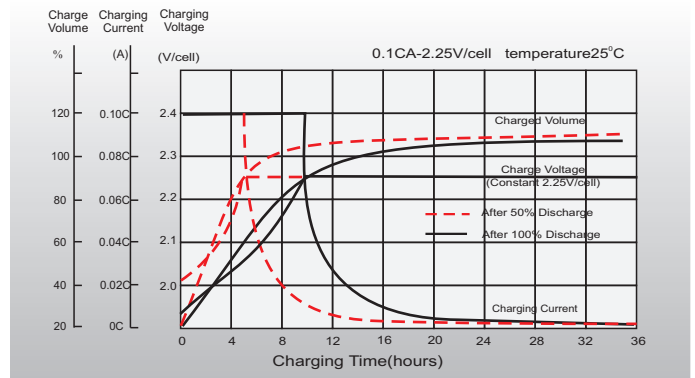
Unit: mm [inches]



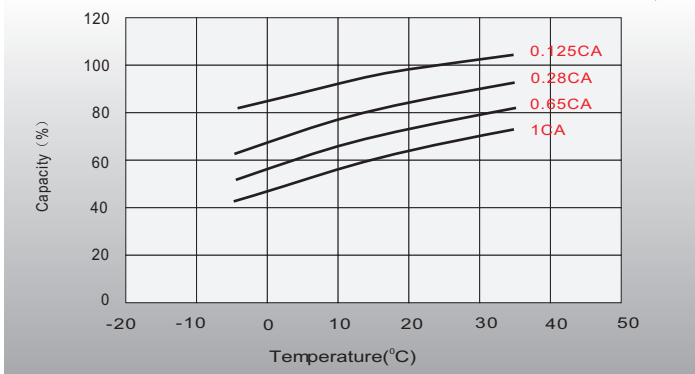
Discharge Characteristics



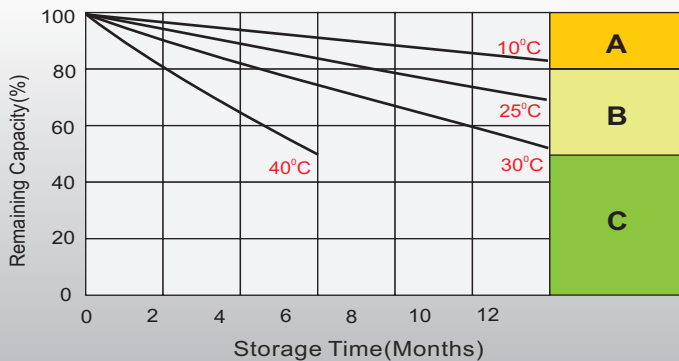
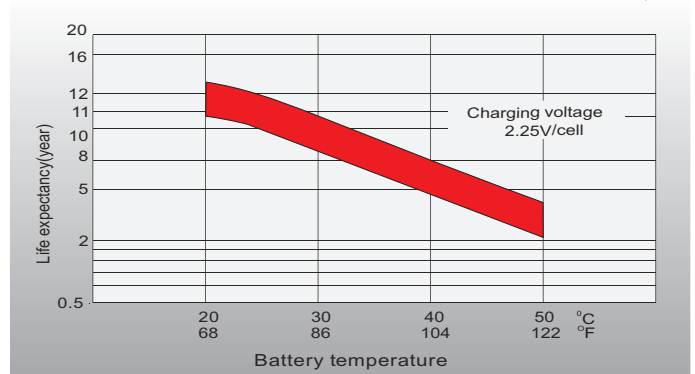
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office

China sales office:

Add: 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
Http://www.leoch.com

North Americasales office:

Add: 19751 Descartes, Unit A,
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us
Http://www.leoch.us

Europe sales office:

Add: LaCampagna House. Main Road.
Gloucester. GL2-8JH. United Kingdom
Tel: +44(0) 1452 751016
E-mail: Sales.Europe@leoch.com
Http://www.leoch.com

