

LPF SERIES-Front Terminal

LPF12-180 (12V180AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	180.0AH	
Dimension	Length	550±3mm (21.6 inches)
	Width	125±2mm (4.92 inches)
	Container Height	280±3mm (11.0 inches)
	Total Height (with Terminal)	280±3mm (11.0 inches)
Approx Weight	Approx 54.0 Kg (119.1 lbs)	
Terminal	T13	
Container Material	ABS	
Rated Capacity	180.0 AH/9.00A	(20hr, 1.80V/cell, 25°C/77°F)
	170.0 AH/17.0A	(10hr, 1.80V/cell, 25°C/77°F)
	160.8 AH/20.2A	(8hr, 1.80V/cell, 25°C/77°F)
	148.0 AH/29.6A	(5hr, 1.75V/cell, 25°C/77°F)
	110.5 AH/110.5A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1360A (5s)	
Internal Resistance	Approx 3.2mΩ	
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 54.0A. 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	245.8	216.2	193.8	158.8	122.4	98.9	57.7	42.2	33.8	28.4	24.6	19.5	16.3	8.61
1.80V/cell	285.6	249.6	216.2	170.7	129.4	103.5	59.8	43.7	34.9	29.2	25.2	20.2	17.0	9.00
1.75V/cell	315.2	268.6	230.5	177.5	133.5	106.6	61.1	44.4	35.3	29.6	25.6	20.5	17.2	9.09
1.70V/cell	335.6	281.5	239.7	183.6	136.0	108.3	62.0	45.0	35.8	29.9	25.9	20.8	17.4	9.15
1.67V/cell	350.9	291.0	244.8	187.3	138.9	110.5	62.8	45.4	36.2	30.3	26.2	21.0	17.5	9.20
1.60V/cell	366.2	299.2	251.9	191.1	141.0	112.2	63.6	46.0	36.5	30.6	26.4	21.2	17.7	9.25

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

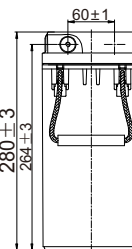
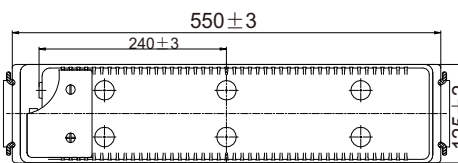
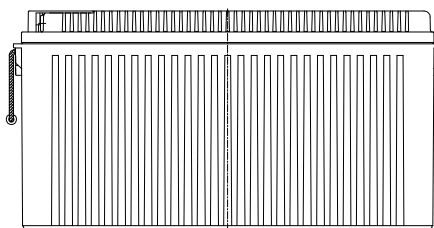
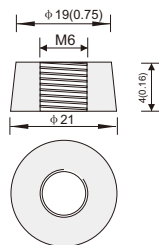
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	459.0	407.8	369.2	305.8	237.7	192.8	113.2	83.1	66.8	56.2	48.8	38.9	32.5	17.2
1.80V/cell	527.1	464.4	405.9	323.7	249.4	200.7	116.5	85.6	68.5	57.6	49.9	40.2	33.9	18.0
1.75V/cell	572.4	493.8	428.7	333.9	254.9	205.7	118.7	86.7	69.2	58.1	50.5	40.7	34.3	18.1
1.70V/cell	595.8	510.4	442.4	343.5	258.7	208.3	120.1	87.7	70.0	58.5	51.0	41.1	34.6	18.2
1.67V/cell	620.6	525.5	450.0	349.8	263.4	212.0	121.5	88.3	70.6	59.2	51.4	41.5	34.9	18.3
1.60V/cell	629.8	529.5	456.6	352.2	264.4	213.2	121.9	88.7	70.9	59.5	51.7	41.8	35.1	18.4

Specifications subject to change without notice.

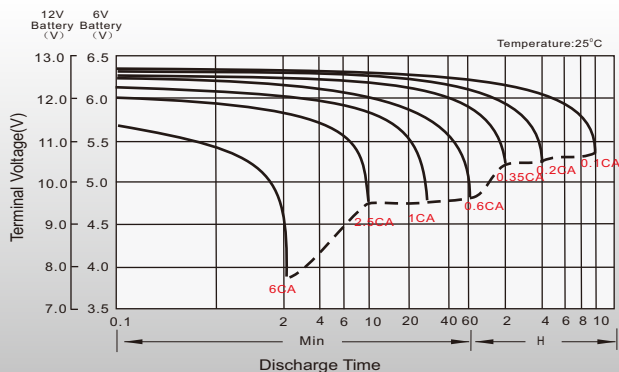
Dimensions

T13 Terminal

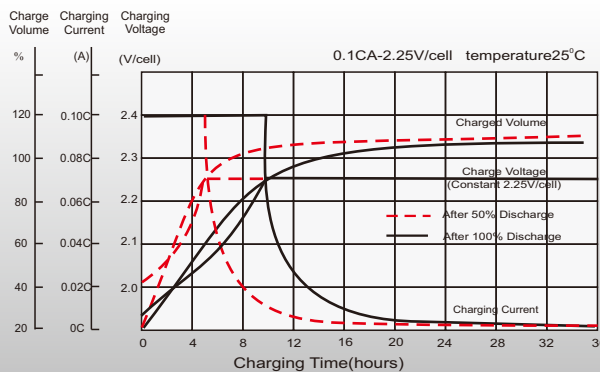
Unit: mm [inches]



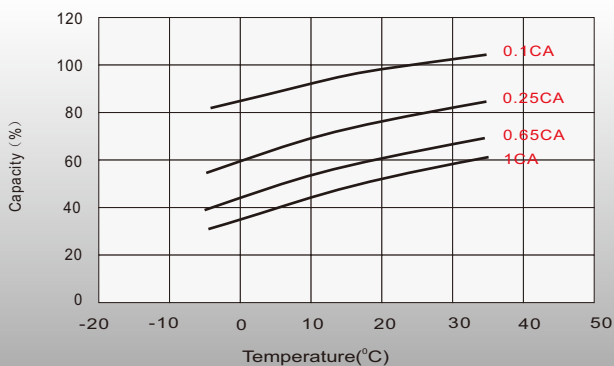
Discharge Characteristics



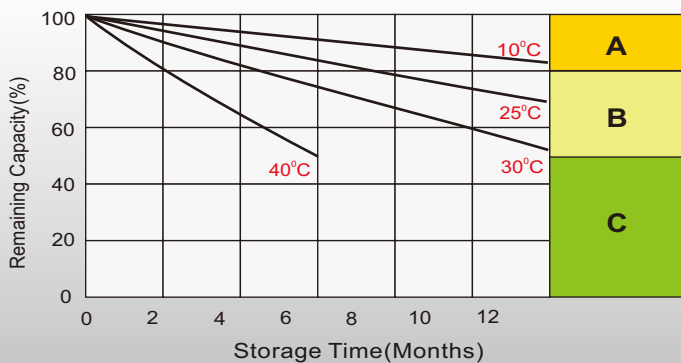
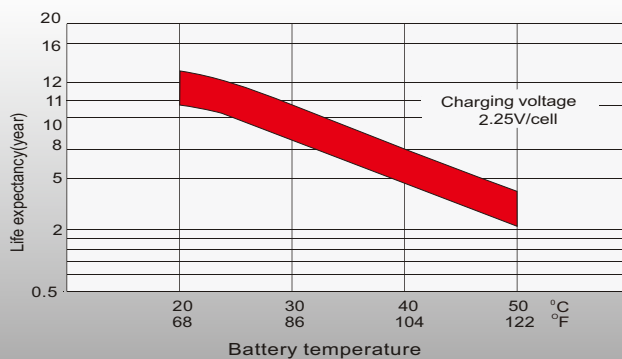
Float Charging Characteristics



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.

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