LPF SERIES-Front Terminal

LPF12-90H (12V90AH)

Specification

Nomial Voltage	12V
Nomial Capacity(8HR)	90.0AH
Dimension	Length 394±2mm (15.5 inches) Width 110±2mm (4.33 inches) Container Height 285±2mm (11.2 inches) Total Height (with Terminal) 285±2mm (11.2 inches)
Approx Weight	Approx 32.6 Kg (71.9 lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	99.0 AH/4.95A (20hr ,1.80V/cell,25°C/77°F) 93.4 AH/9.34A (10hr,1.80V/cell,25°C/77°F) 90.0 AH/11.25A (8hr,1.80V/cell,25°C/77°F) 85.0 AH/17.0A (5hr,1.75V/cell,25°C/77°F) 62.3 AH/62.3A (1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	900A (5s)
Internal Resistance	Approx 4.5mΩ
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 27.0A.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 batterys 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	156.5	130.5	112.0	87.8	68.1	55.4	33.0	23.8	19.1	15.8	13.7	10.71	8.93	4.73
1.80V/cell	177.5	145.4	123.9	96.1	73.3	59.1	34.8	25.3	20.1	16.6	14.4	11.25	9.34	4.95
1.75V/cell	194.7	157.4	132.3	101.0	76.1	61.2	35.5	25.7	20.6	17.0	14.7	11.39	9.45	5.02
1.70V/cell	208.3	165.8	137.6	103.9	77.8	62.0	36.0	26.0	20.7	17.1	14.9	11.55	9.54	5.06
1.67V/cell	215.6	169.9	140.4	105.3	78.1	62.3	36.1	26.1	20.9	17.3	15.0	11.70	9.63	5.09
1.60V/cell	226.6	176.4	146.7	107.9	80.2	63.9	36.7	26.6	21.3	17.7	15.3	11.97	9.81	5.11

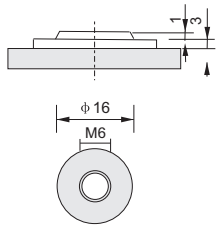
Constant Power Discharge (Watts) at 25 °C (77°F)

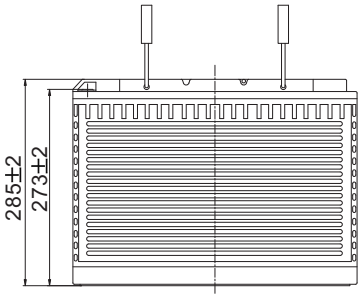
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	292.3	246.1	213.3	169.1	132.3	107.9	64.8	46.8	37.7	31.3	27.3	21.4	17.9	9.47
1.80V/cell	327.5	270.6	232.7	182.3	141.2	114.6	67.9	49.5	39.5	32.8	28.6	22.4	18.6	9.89
1.75V/cell	353.7	289.3	245.9	190.0	145.2	118.1	68.9	50.1	40.3	33.4	28.9	22.6	18.8	10.02
1.70V/cell	369.9	300.5	253.9	194.5	148.0	119.3	69.7	50.5	40.5	33.5	29.2	22.9	19.0	10.09
1.67V/cell	381.3	306.7	258.1	196.5	148.1	119.5	69.9	50.7	40.8	33.8	29.5	23.2	19.2	10.13
1.60V/cell	389.7	312.2	265.9	198.9	150.3	121.4	70.4	51.4	41.4	34.5	29.9	23.6	19.5	10.17

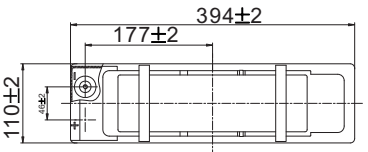
Dimensions

T6 Terminal

Unit: mm [inches]

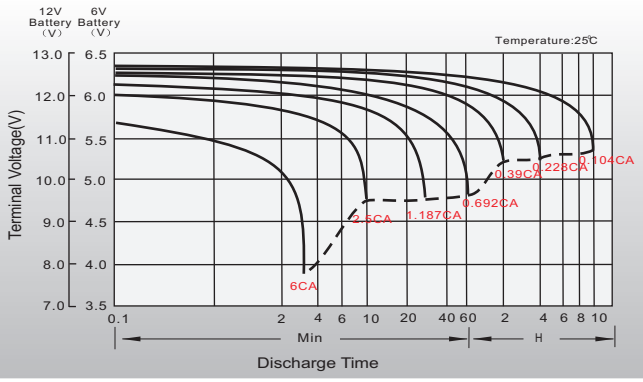




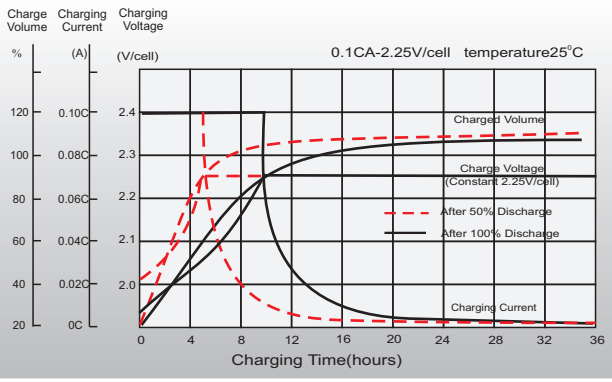




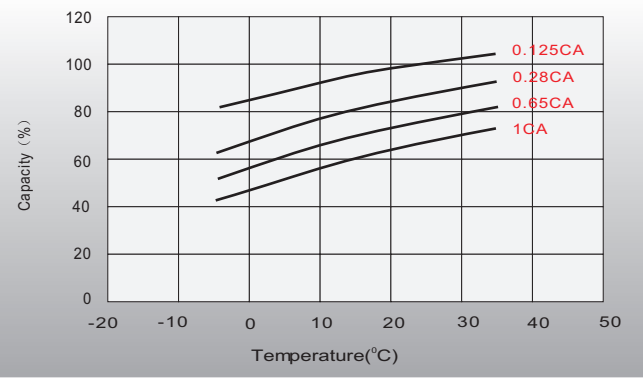
Discharge Characteristics



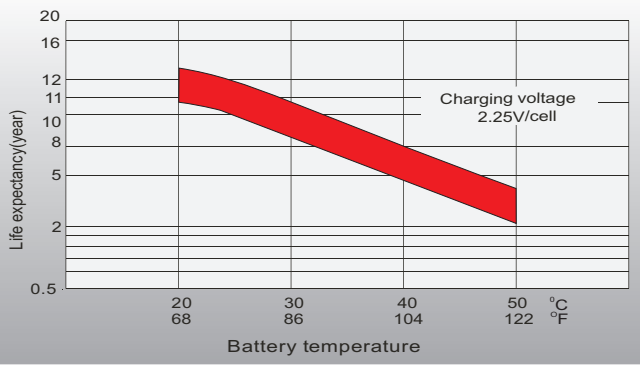
Float Charging Characteristics

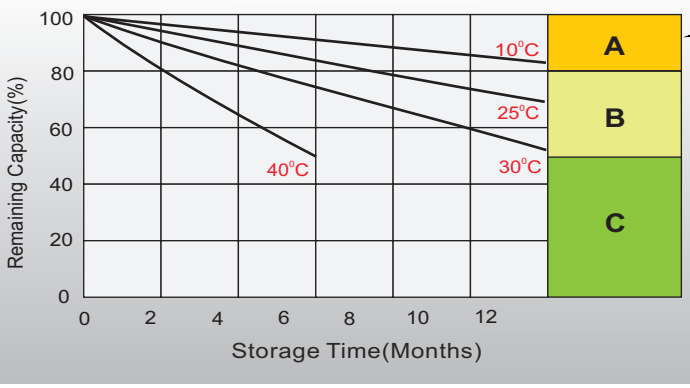


Temperature Effects in Relation to Battery Capacity



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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted 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

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