Reliable Power Solutions

LOP SERIES-Outside Plant Purpose

LOP12-134FR (12V, 140AH)

Specification

Nominal Voltage	12V
Nominal Capacity(8HR)	134.0AH
Dimensions	Length 345±3mm (13.6 inches) Width 172±2mm (6.77 inches) Container Height 274±3mm (10.79 inches) Total Height (with Terminal) 280±3mm (11.02 inches)
Approx Weight	Approx 41.5 Kg (91.49lbs)
Terminal	T11 (Term Insert for M8 bolt)
Container Material	ABS Flame Retardant Jars to UL94 V-0 Standard
Rated Capacity	149.8 AH/7.49A (20hr ,1.80V/cell,25°C/77°F) 138.2 AH/13.82A (10hr,1.80V/cell,25°C/77°F) 134 AH/16.75A (8hr,1.75V/cell,25°C/77°F) 109.2 AH/36.4A (3hr,1.75V/cell,25°C/77°F) 86.8 AH/86.8A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1400A (5s)
Internal Resistance	Approx 4.0mΩ
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)
Standby (Float) Use	No limit on Initial Charging Current. 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Cycle Use	Initial Charging Current less than 42.0A. 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Leoch LOP 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.

NEBS Level III Certified

Applications

- *Telecommunication Power supply, DC power supply*
- *Power system communication, military communication, etc.*
- *Network communication including: data transmission, television signal transmission, etc.*
- *Uninterruptable Power System (Long duration UPS for Telecom & Utility)*

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	163.8	137.8	122.2	101.4	78.2	66.9	43.3	32.6	26.7	22.5	19.7	15.61	13.45	7.17
1.80V/cell	187.4	154.7	135.1	110.1	84.4	70.6	46.6	35.0	28.4	23.8	20.8	16.38	13.82	7.49
1.75V/cell	212.9	174.4	149.3	119.6	92.0	77.0	48.4	36.4	29.3	24.4	21.5	16.75	14.25	7.68
1.70V/cell	240.4	193.4	164.8	130.6	99.1	81.5	51.0	38.3	30.7	25.8	22.5	17.59	14.75	7.77
1.65V/cell	258.2	207.1	175.4	137.8	104.9	84.3	52.9	39.9	31.9	26.6	23.3	18.30	15.15	8.00
1.60V/cell	284.0	226.8	190.5	147.1	109.0	86.8	54.3	40.9	32.6	27.2	23.8	18.56	15.51	8.13

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

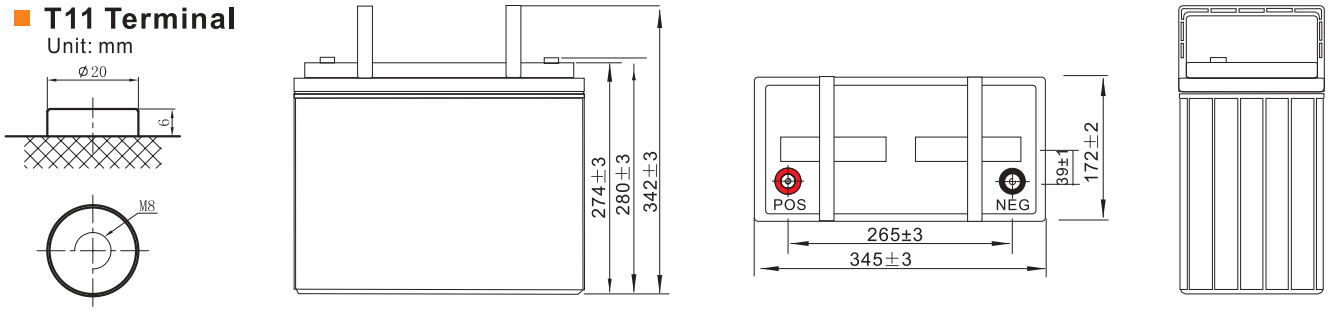
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	305.8	259.8	232.8	195.2	151.9	130.4	85.0	64.2	52.7	44.5	39.1	31.12	26.80	14.35
1.80V/cell	345.9	287.9	253.7	208.8	162.6	136.9	90.8	68.5	55.7	46.9	41.2	32.59	27.57	14.85
1.75V/cell	386.6	320.5	277.7	225.1	175.7	148.6	94.1	71.0	57.5	47.9	42.4	33.72	28.36	15.11
1.70V/cell	426.9	350.7	304.2	244.4	188.5	156.7	98.9	74.6	59.9	50.5	44.4	35.03	29.32	15.47
1.65V/cell	454.3	372.6	321.3	255.8	197.7	161.0	101.9	77.3	62.1	51.9	45.8	36.16	30.15	15.96
1.60V/cell	488.5	401.5	345.2	271.1	204.4	164.9	104.0	78.9	63.2	53.0	46.6	36.62	30.75	16.20

Specifications subject to change without notice.

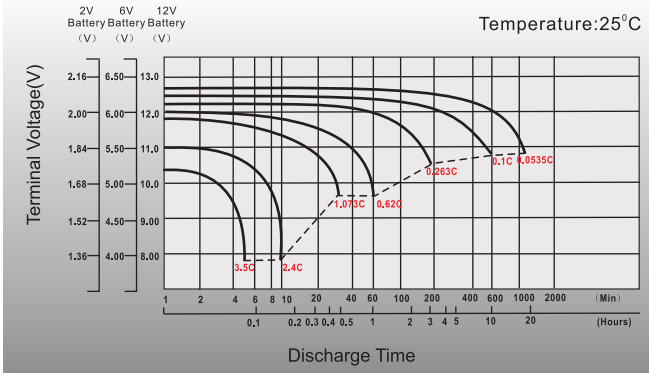
Dimensions

T11 Terminal

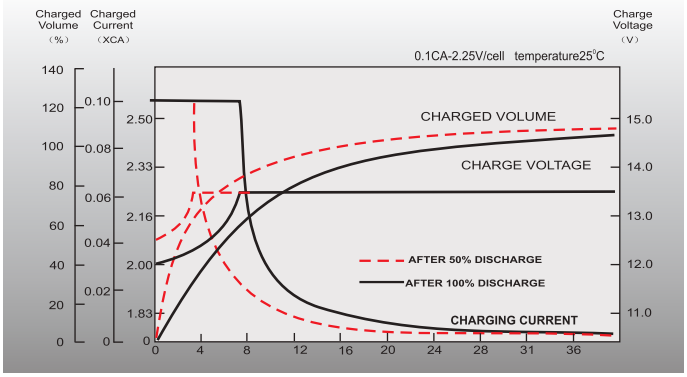
Unit: mm



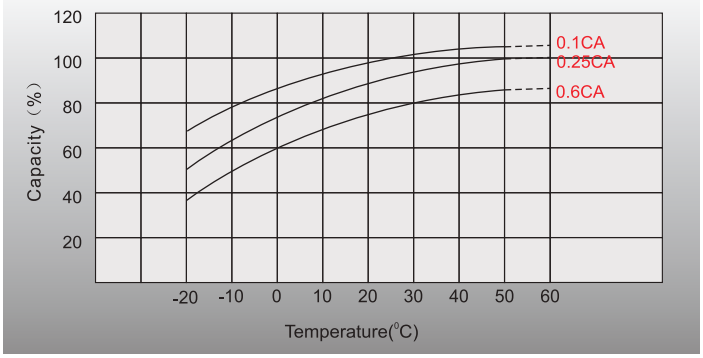
Discharge Characteristics



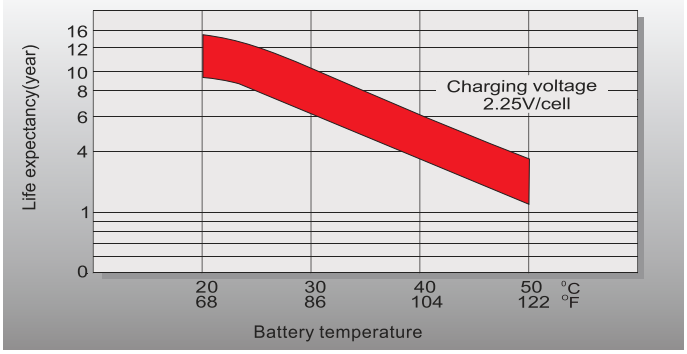
Float Charging Characteristics

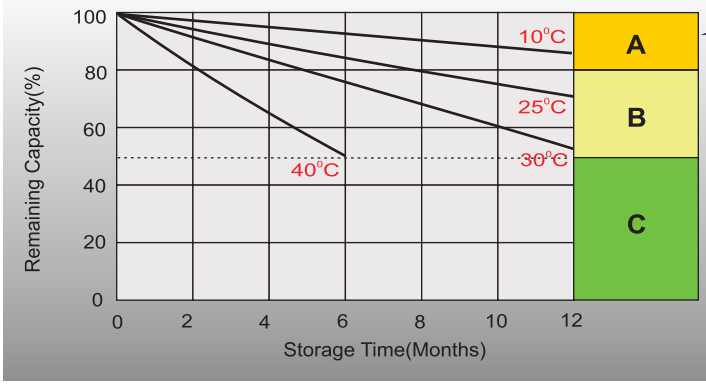


Temperature Effects in Relation to Battery Capacity



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.

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