

LPL SERIES-Long Life Standby

LPL12-100 (12V100AH)

Specification

 $\frac{\text{Nominal Voltage}}{\text{Nominal Capacity(10HR)}} \qquad \qquad \frac{12\text{V}}{100.0\text{AH}}$

 $\begin{array}{ccc} \text{Length} & 330\pm3\text{mm} \ (12.99 \ \text{inches}) \\ \text{Width} & 173\pm2\text{mm} \ (6.81 \ \text{inches}) \\ \text{Container Height} & 212\pm2\text{mm} \ (8.35 \ \text{inches}) \\ \text{Total Height (with Terminal)} & 220\pm2\text{mm} \ (8.66 \ \text{inches}) \end{array}$

Approx Weight Approx 31.5 Kg (69.5 lbs)

Terminal T11
Container Material ABS

| 107.0 AH/5.35A | (20hr ,1.80V/cell,25°C/77°F) | 100.0 AH/10.0A | (10hr,1.80V/cell,25°C/77°F) | 87.0 AH/17.4A | (5hr,1.75V/cell,25°C/77°F) | 78.0 AH/26.0A | (3hr,1.75V/cell,25°C/77°F) |

 Max. Discharge Current
 62.0 AH/62.0A
 (1hr,1.60V/cell,25°C/77°F)

 1200A (5s)

Internal Resistance Approx 4.9mΩ

Discharge : $-15 \sim 50^{\circ}$ C ($5 \sim 122^{\circ}$ F)

Operating Temp.Range

Charge : $0 \sim 40^{\circ}$ C ($32 \sim 104^{\circ}$ F)

Storage : $-15 \sim 40^{\circ}$ C ($5 \sim 104^{\circ}$ F)

Nominal Operating Temp. Range $25\pm3^{\circ}\text{C}~(77\pm5^{\circ}\text{F}~)$

Cycle Use Initial Charging Current less than 30.0 A. Voltage 14.4 V~15.0 V at 25° C(77° F) Temp. Coefficient -30 mV/° C

No limit on Initial Charging Current Voltage

Standby Use 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C

Leoch LPL series batteries may be stored for up to 6 months
Self Discharge at 25°C(77°F) and then a freshening charge is required.
For higher temperatures the time interval will be shorter.



Applications

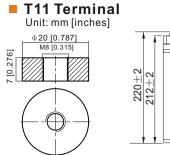
- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
 Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

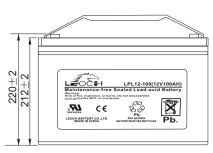


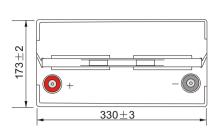
Constant Current Discharge (Amperes) at 25 °C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	117.0	98.4	87.3	72.4	55.9	47.8	31.0	23.3	19.1	16.0	14.1	11.3	9.69	5.17
1.80V/cell	133.9	110.5	96.5	78.6	60.3	50.5	33.3	25.0	20.3	17.0	14.9	11.9	10.0	5.35
1.75V/cell	152.1	124.5	106.7	85.5	65.7	55.0	34.6	26.0	21.0	17.4	15.4	12.3	10.3	5.49
1.70V/cell	171.7	138.2	117.7	93.3	70.8	58.2	36.5	27.4	21.9	18.4	16.1	12.8	10.7	5.63
1.65V/cell	184.4	147.9	125.3	98.5	74.9	60.2	37.8	28.5	22.8	19.0	16.7	13.2	11.0	5.80
1.60V/cell	202.9	162.0	136.1	105.1	77.9	62.0	38.8	29.2	23.3	19.4	17.0	13.4	11.2	5.89

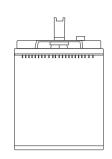
Constant Power Discharge (Watts) at 25 °C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	218.5	185.6	166.3	139.4	108.5	93.2	60.7	45.8	37.7	31.8	27.9	22.5	19.4	10.3
1.80V/cell	247.1	205.6	181.2	149.2	116.1	97.8	64.8	49.0	39.8	33.5	29.4	23.6	20.0	10.7
1.75V/cell	276.2	228.9	198.3	160.8	125.5	106.1	67.2	50.7	41.0	34.2	30.3	24.3	20.5	10.9
1.70V/cell	304.9	250.5	217.3	174.6	134.7	112.0	70.6	53.3	42.8	36.1	31.7	25.3	21.2	11.2
1.65V/cell	324.5	266.2	229.5	182.7	141.2	115.0	72.8	55.2	44.3	37.1	32.7	26.1	21.8	11.6
1.60V/cell	348.9	286.8	246.6	193.6	146.0	117.8	74.3	56.4	45.2	37.9	33.3	26.5	22.2	11.7

Dimensions

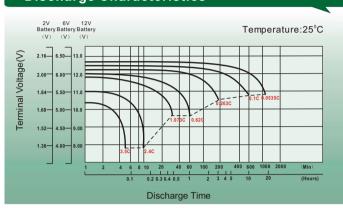




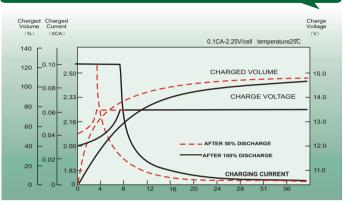




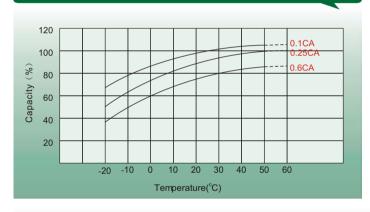
Discharge Characteristics



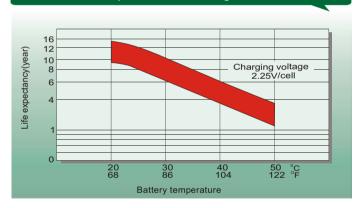
Float Charging Characteristics

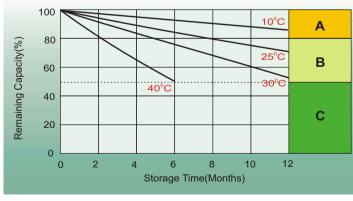


Temperature Effects in Relation to Battery Capacity



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.)

Supplementary charge required before use. Optional charging way as below:

 $1. Charged \ for \ above \ 3 \ days \ at \ limted \ current \ 0.25 CA \ and \ constant \ volatge \ 2.25 V/cell.$

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.

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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