

LP SERIES-General Purpose

LP12-100 (12V100AH)

Specification

Self Discharge

Nominal Voltage 12V 100.0AH 100.0AH

Dimensions Length 330 ± 3 mm (12.99 inches) Width 173 ± 2 mm (6.81 inches) Container Height 212 ± 3 mm (8.35 inches) Total Height (with Terminal) 220 ± 3 mm (8.66 inches)

 Approx Weight
 Approx 30.6 kg (67.5lbs)

 Terminal
 T11

Container Material ABS

104.0 AH/5.20A (20hr ,1.80V/cell,25°C/77°F) 100.0 AH/10.0A (10hr,1.80V/cell,25°C/77°F) Rated Capacity 88.0 AH/17.6A (5hr,1.75V/cell,25°C/77°F) 76.2 AH/25.4A (3hr,1.75V/cell,25°C/77°F) 63.8 AH/63.8A (1hr,1.60V/cell,25°C/77°F)

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

Cycle Use Initial Charging Current less than 30.0A.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

Leoch LP 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

- ♦ All purpose
- Uninterruptable Power Supply (UPS)
- ♦ Electric Power System (EPS)
- Emergency backup power supply
- ♦ Emergency light
- ♦ Railway signal
- Aircraft signal
- ♦ Alarm and security system
- Electronic apparatus and equipment
- ♦ Communication power supply
- ♦ DC power supply
- ♦ Auto control system

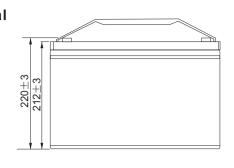


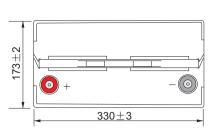
Constant Current Discharge (Amperes) at 25 °C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	173.6	146.4	130.2	115.3	87.5	65.2	52.4	31.3	23.5	19.2	16.4	14.4	11.6	9.65	5.13
1.80V/cell	210.0	167.6	143.7	123.5	92.1	68.7	55.1	33.1	24.6	20.2	17.2	15.0	12.0	10.0	5.20
1.75V/cell	237.0	186.3	154.0	130.8	96.5	71.3	57.1	34.4	25.4	20.7	17.6	15.3	12.2	10.1	5.29
1.70V/cell	261.6	199.5	165.1	138.9	101.8	74.6	59.5	35.3	26.0	21.2	17.9	15.6	12.4	10.2	5.34
1.65V/cell	291.7	215.1	178.5	146.6	106.7	77.4	61.9	36.3	26.7	21.7	18.3	15.9	12.6	10.3	5.40
1.60V/cell	330.8	232.5	188.5	154.3	112.3	80.5	63.8	37.5	27.6	22.2	18.6	16.2	12.7	10.5	5.45

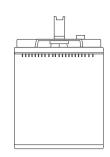
Constant Power Discharge (Watts/cell) at 25 °C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	322.5	274.9	247.1	220.5	168.5	126.4	102.2	60.8	45.7	37.5	32.2	28.2	22.9	19.1	10.2
1.80V/cell	386.4	312.2	271.0	235.1	176.8	132.7	107.2	63.8	47.7	39.2	33.6	29.4	23.7	19.8	10.3
1.75V/cell	431.3	344.9	288.7	247.8	184.3	137.3	110.8	66.0	49.1	40.1	34.3	29.9	24.0	19.9	10.4
1.70V/cell	470.9	366.5	307.7	261.8	193.6	143.0	115.0	67.6	50.1	41.0	34.8	30.4	24.3	20.1	10.5
1.65V/cell	519.3	391.4	330.2	274.5	201.9	147.7	119.1	69.2	51.3	41.8	35.3	30.8	24.6	20.3	10.6
1.60V/cell	578.9	418.2	345.1	286.6	211.1	152.9	122.4	71.1	52.7	42.6	35.9	31.3	24.8	20.5	10.7

Dimensions

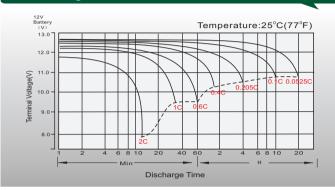
T11 Terminal Unit: mm + 20 M8



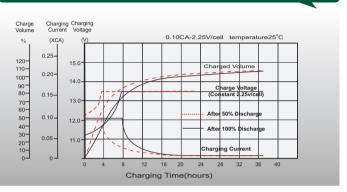




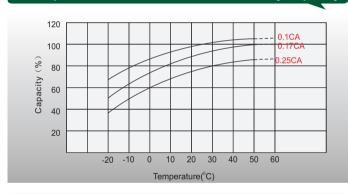
Discharge Characteristics



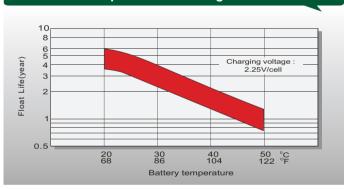
Float Charging Characteristics



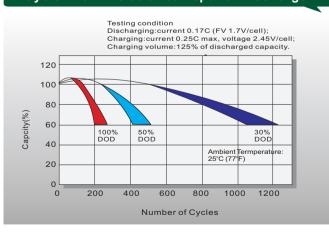
Temperature Effects in Relation to Battery Capacity



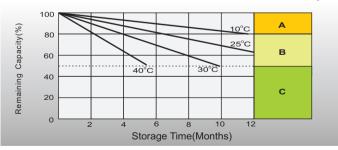
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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 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.

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

HongKong sales office:

Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road, Tsuen Wan, New Territories, Hong Kong Tel: +852 35786666 Fax: +852 21170016 E-mail: sales.hk@leoch.com

Singapore sales office:

Add: No. 1 Tech Park Crescent, Singapore 638131 Tel: +65 68636078 Fax: +65 68636079 Email sales.sg@Leoch.com Http://www.leoch.com

North America sales 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.com

Europe sales office:

Add: 9B Wheatstone Court. Waterwells Business Park, Gloucester, GL2-2AQ, UK United Kingdom Tel: +44(0) 1452 729428 / 1452 729696 Fax: +44 (0)1452-690125 E-mail: Sales.Europe@leoch.com

