



# LP SERIES-General Purpose

## LP12-120 (12V120AH)

### Specification

Nominal Voltage	12V										
Nominal Capacity(10HR)	120.0AH										
Dimensions	<p>Length                            <math>408 \pm 3\text{mm}</math> (16.1 inches)</p> <p>Width                            <math>177 \pm 2\text{mm}</math> (6.97 inches)</p> <p>Container Height                <math>225 \pm 3\text{mm}</math> (8.86 inches)</p> <p>Total Height (with Terminal) <math>225 \pm 3\text{mm}</math> (8.86 inches)</p>										
Approx Weight	Approx 35.0 kg (77.2lbs)										
Terminal	T11										
Container Material	ABS										
Rated Capacity	<table> <tbody> <tr> <td>124.8AH/6.24A</td> <td>(20hr ,1.80V/cell,25°C/77°F)</td> </tr> <tr> <td>120.0AH/12.0A</td> <td>(10hr,1.80V/cell,25°C/77°F)</td> </tr> <tr> <td>103.2AH/20.64A</td> <td>(5hr,1.75V/cell,25°C/77°F)</td> </tr> <tr> <td>93.6AH/31.2A</td> <td>(3hr,1.75V/cell,25°C/77°F)</td> </tr> <tr> <td>73.2AH/73.2A</td> <td>(1hr,1.60V/cell,25°C/77°F)</td> </tr> </tbody> </table>	124.8AH/6.24A	(20hr ,1.80V/cell,25°C/77°F)	120.0AH/12.0A	(10hr,1.80V/cell,25°C/77°F)	103.2AH/20.64A	(5hr,1.75V/cell,25°C/77°F)	93.6AH/31.2A	(3hr,1.75V/cell,25°C/77°F)	73.2AH/73.2A	(1hr,1.60V/cell,25°C/77°F)
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73.2AH/73.2A	(1hr,1.60V/cell,25°C/77°F)										
Max. Discharge Current	1300A (5s)										
Internal Resistance	Approx 4.0mΩ										
Operating Temp.Range	<p>Discharge : -15~50°C (5~122°F)</p> <p>Charge : 0~40°C (32~104°F)</p> <p>Storage : -15~40°C (5~104°F)</p>										
Nominal Operating Temp. Range	$25 \pm 3\text{°C}$ (77 ± 5°F )										
Cycle Use	Initial Charging Current less than 36.0A. 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	<table> <tbody> <tr> <td>40°C (104°F)</td> <td>103%</td> </tr> <tr> <td>25°C ( 77°F)</td> <td>100%</td> </tr> <tr> <td>0°C ( 32°F)</td> <td>86%</td> </tr> </tbody> </table>	40°C (104°F)	103%	25°C ( 77°F)	100%	0°C ( 32°F)	86%				
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Self Discharge	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

VdS	Intertek ETL SEMKO	UL MH26866
CEC TSO14001	ISO9001	CE RIBS EMC tested

### 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	205.4	161.5	137.3	114.9	91.3	69.1	56.6	36.0	28.5	23.3	18.8	16.3	13.3	11.3	6.18
1.80V/cell	275.7	206.3	165.9	135.8	107.7	80.4	63.4	39.3	30.7	24.8	20.1	17.5	14.1	12.0	6.24
1.75V/cell	310.8	226.7	181.2	146.1	111.8	83.4	66.3	40.8	31.2	25.4	20.6	18.0	14.3	12.1	6.30
1.70V/cell	342.3	247.1	193.5	153.5	116.4	86.7	68.4	42.4	32.1	26.1	21.2	18.4	14.5	12.2	6.42
1.65V/cell	377.4	266.7	205.7	163.1	122.8	88.9	70.7	43.6	33.5	27.0	21.8	18.8	14.7	12.5	6.50
1.60V/cell	416.3	289.5	220.0	173.7	129.6	92.6	73.2	45.1	34.5	27.8	22.5	19.2	14.9	12.6	6.54

### 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	375.5	298.3	256.2	216.5	174.0	132.8	109.1	70.0	55.5	45.5	36.8	32.1	26.2	22.4	12.2
1.80V/cell	498.7	376.6	305.4	252.2	202.2	153.2	121.6	75.9	59.4	48.3	39.3	34.3	27.7	23.7	12.3
1.75V/cell	550.3	407.2	329.5	268.7	208.1	157.5	126.6	78.4	60.3	49.2	40.2	35.1	28.1	23.9	12.4
1.70V/cell	589.2	433.8	346.9	280.2	215.4	163.2	130.2	81.3	61.9	50.4	41.1	35.8	28.5	24.1	12.7
1.65V/cell	640.5	463.8	366.0	295.5	225.4	165.8	133.6	83.1	64.2	52.0	42.1	36.5	28.8	24.6	12.8
1.60V/cell	690.1	492.1	385.0	311.3	236.3	171.8	137.6	85.5	65.9	53.4	43.4	37.2	29.1	24.8	12.9

