



# LP Series-General Purpose LP2-100(2V100Ah)

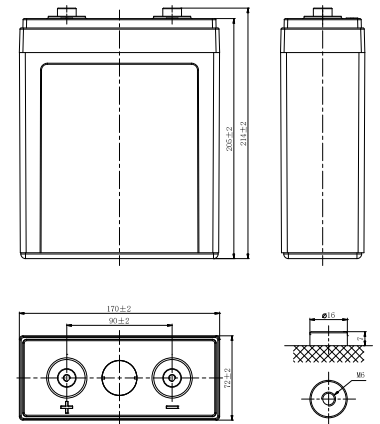


## Specifications

Rated Voltage	2V	
Nominal Capacity	100.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	72±2mm (2.83 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	5.8 Kg (12.8 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	105.0 Ah	(20hr, 5.25A, 1.80V/cell)
	100.0 Ah	(10hr, 10.0A, 1.80V/cell)
	88.0 Ah	(5hr, 17.6A, 1.75V/cell)
	76.2 Ah	(3hr, 25.4A, 1.75V/cell)
	64.0 Ah	(1hr, 64.0A, 1.60V/cell)
Max. Discharge Current	800A (5s)	
Internal Resistance (25°C)	Approx 1.0mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	-20 ~ 40°C (-4 ~ 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 30.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 30.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	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.	



## Layout



## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	115.4	90.8	81.7	61.3	52.0	35.1	29.6	23.6	19.2	16.4	14.8	11.6	9.30	4.88
1.80V/cell	130.8	102.6	91.0	65.0	55.1	37.1	31.2	25.0	20.1	17.0	15.3	11.9	10.0	5.25
1.75V/cell	141.6	110.8	95.0	67.3	58.4	39.3	32.6	25.4	20.9	17.6	15.8	12.1	10.1	5.30
1.70V/cell	150.4	117.5	96.2	68.7	61.1	41.1	33.9	26.2	21.4	17.9	16.0	12.3	10.2	5.35
1.67V/cell	154.8	120.7	97.7	69.7	63.3	42.5	34.9	27.0	21.9	18.2	16.3	12.5	10.3	5.41
1.60V/cell	159.6	123.8	99.2	70.7	64.0	43.6	35.5	27.5	22.2	18.5	16.5	12.6	10.4	5.46

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

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	218.6	172.7	149.8	117.9	83.5	63.7	52.4	40.0	32.9	30.1	26.7	19.8	16.6	8.70
1.80V/cell	244.5	193.2	166.9	124.1	89.8	68.6	56.6	42.8	34.8	31.8	28.0	20.5	16.9	8.85
1.75V/cell	261.0	206.2	174.2	127.9	94.5	71.6	58.7	44.2	35.9	32.9	28.8	20.7	17.1	8.95
1.70V/cell	274.3	216.7	176.4	129.5	98.7	74.1	60.3	45.4	36.9	33.5	29.3	20.9	17.2	9.05
1.67V/cell	278.8	220.2	179.1	130.7	103.0	76.7	62.0	46.7	37.8	33.9	29.7	21.1	17.4	9.15
1.60V/cell	282.7	223.3	181.8	131.3	107.2	79.1	63.3	47.7	38.3	34.4	30.1	21.5	17.7	9.30



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## Applications

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)

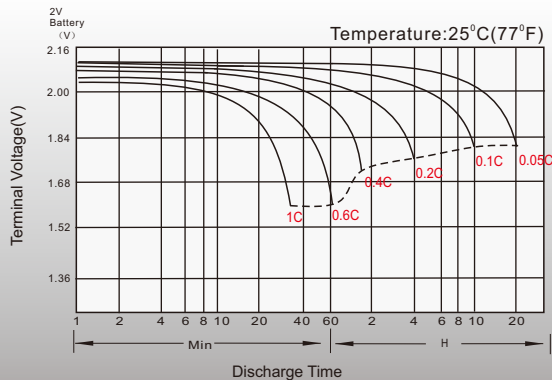
## General Features

- 15 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

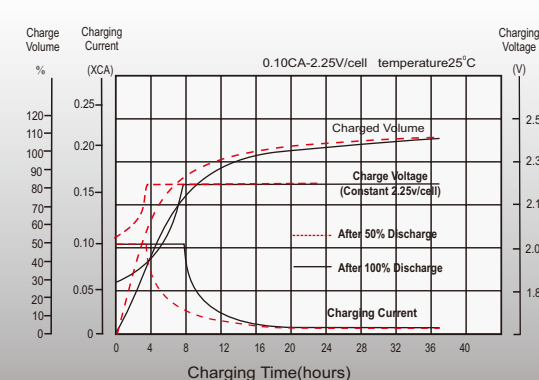
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

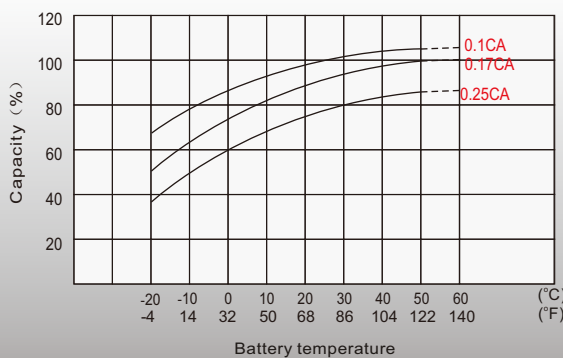
## Discharge Characteristics



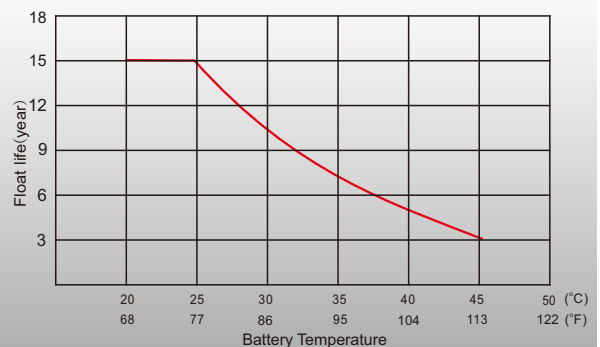
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Sales Offices Worldwide

### China Sales Office

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

### HongKong Sales Office

Workshop C, 33/F, TML Tower, No. 3 Hoi Shing Road,  
Tsuen Wan, New Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

### Singapore Sales Office

No. 1 Tech Park Crescent,  
Singapore 638131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@Leoch.com

### Australia Sales Office

2 /29 Tarlington Place, Smithfield. NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

### North America Sales Office

19751 Descartes  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us  
Http:// www.leoch.us

### UK Sales Office

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

### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com  
Http:// www.leoch.eu

### India Sales Office

Shed no.A-53(b), 2nd Stage of Peenya Industrial Area,  
Bangalore North Taluk, Bangalore-560058, India  
Tel: +91-80-23440018/23440019  
Fax: +91-80-23440017  
E-mail: indiasales@leoch.com



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