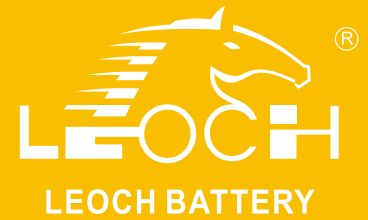




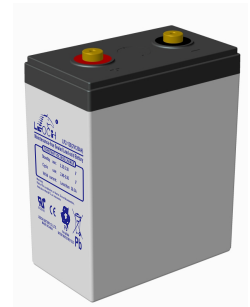
LP Series-General Purpose

LP2-120(2V120Ah)

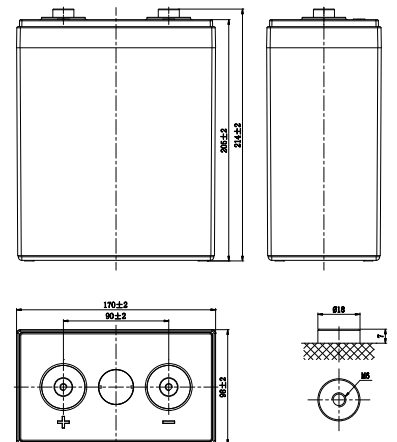


Specifications

Rated Voltage	2V	
Nominal Capacity	120.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	98±2mm (3.86 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	7.2 Kg (15.9 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	124.8 Ah	(20hr, 6.24A, 1.80V/cell)
	120.0 Ah	(10hr, 12.0A, 1.80V/cell)
	105.0 Ah	(5hr, 21.0A, 1.75V/cell)
	92.1 Ah	(3hr, 30.7A, 1.75V/cell)
	76.4 Ah	(1hr, 76.4A, 1.60V/cell)
Max. Discharge Current	960A (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 36.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	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	138.5	108.9	97.5	73.6	62.1	41.9	35.4	28.4	22.9	19.6	17.7	13.8	11.1	5.83
1.80V/cell	157.0	123.2	108.7	78.0	65.8	44.3	37.3	30.0	24.0	20.3	18.3	14.2	12.0	6.24
1.75V/cell	169.9	133.0	113.4	80.8	69.8	46.9	39.0	30.7	24.9	21.0	18.8	14.4	12.1	6.33
1.70V/cell	180.5	141.0	114.9	82.4	72.9	49.0	40.4	31.6	25.5	21.4	19.1	14.7	12.2	6.39
1.67V/cell	185.8	144.8	116.6	83.6	75.5	50.7	41.7	32.6	26.1	21.7	19.5	14.9	12.3	6.45
1.60V/cell	191.5	148.6	118.4	84.8	76.4	52.0	42.3	33.2	26.5	22.1	19.7	15.0	12.4	6.52

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	262.3	207.2	178.8	141.5	99.7	76.0	62.6	47.7	39.3	36.0	31.9	23.6	19.8	10.4
1.80V/cell	293.4	231.8	199.3	149.0	107.2	81.9	67.5	51.1	41.5	38.0	33.5	24.4	20.1	10.6
1.75V/cell	313.1	247.4	208.0	153.4	112.8	85.5	70.1	52.7	42.9	39.3	34.4	24.8	20.4	10.7
1.70V/cell	329.2	260.1	210.6	155.4	117.8	88.5	71.9	54.2	44.0	40.0	35.0	25.0	20.6	10.8
1.67V/cell	334.6	264.3	213.8	156.8	123.0	91.6	74.0	55.8	45.1	40.5	35.4	25.2	20.8	10.9
1.60V/cell	339.2	268.0	217.0	157.6	127.9	94.5	75.6	56.9	45.7	41.1	35.9	25.7	21.2	11.1



LP Series-General Purpose LP2-120(2V120Ah)



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)

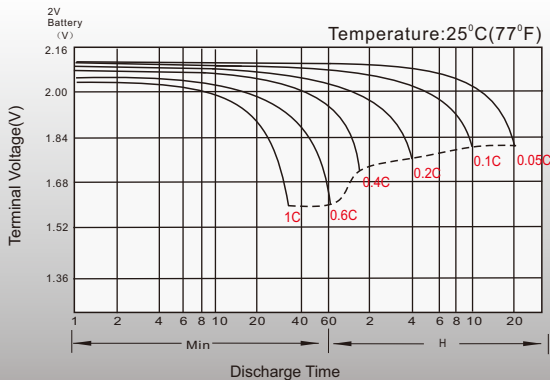
General Features

- 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

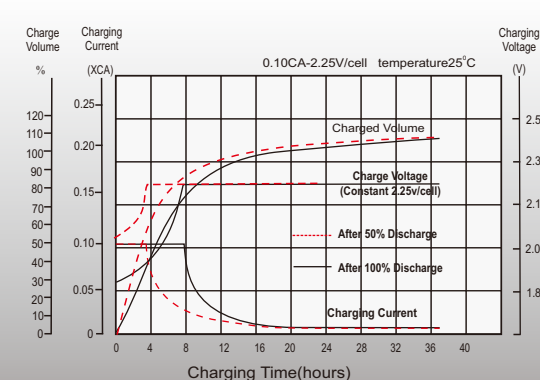
Standards

- 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

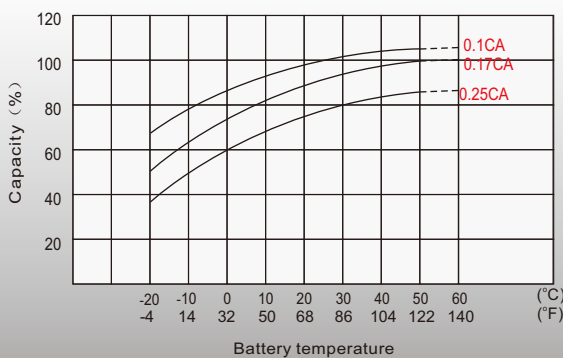
Discharge Characteristics



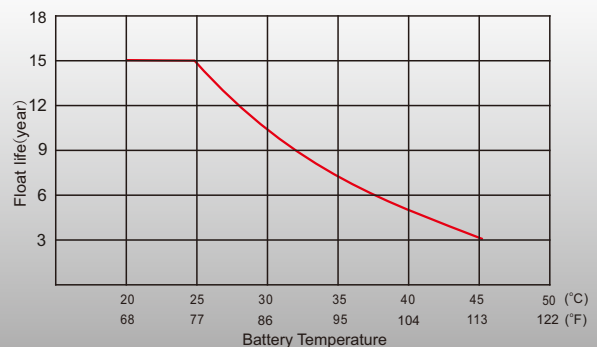
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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