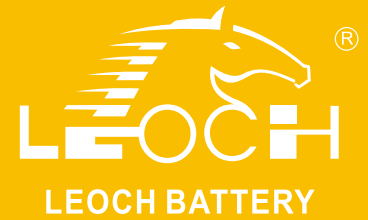




# LP Series-General Purpose LP2-350(2V350Ah)

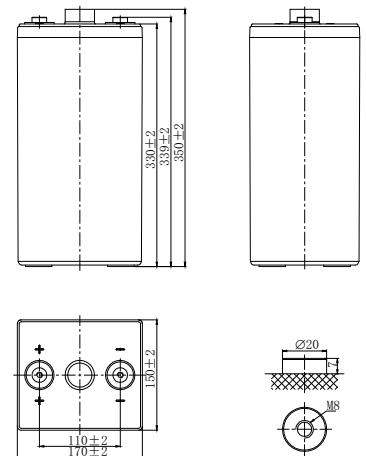


## Specifications

Rated Voltage	2V	
Nominal Capacity	350.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	150±2mm (5.91 inches)
	Container Height	330±2mm (12.99 inches)
	Total Height	350±2mm (13.78 inches)
Approx Weight	19.3 Kg (42.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	372.0 Ah	(20hr, 18.6A, 1.80V/cell)
	350.0 Ah	(10hr, 35.0A, 1.80V/cell)
	306.5 Ah	(5hr, 61.3A, 1.75V/cell)
	273.0 Ah	(3hr, 91.0A, 1.75V/cell)
	220.2 Ah	(1hr, 220.2A, 1.60V/cell)
Max. Discharge Current	2800A (5s)	
Internal Resistance (25°C)	Approx 0.75mΩ	
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 105.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 105.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
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)

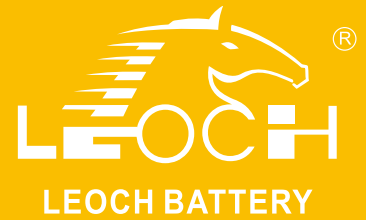
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	350.6	305.5	249.9	197.5	172.9	132.9	107.7	81.9	65.9	55.6	48.3	39.2	32.8	17.6
1.80V/cell	407.8	352.0	282.5	220.9	191.3	145.4	117.2	88.6	71.0	59.9	51.8	42.0	35.0	18.6
1.75V/cell	431.3	369.4	295.2	229.9	198.4	150.3	120.7	91.0	72.8	61.3	52.9	42.8	35.5	18.8
1.70V/cell	455.9	388.7	315.3	238.6	205.7	155.4	124.6	93.7	74.6	62.6	54.0	43.5	36.1	19.0
1.67V/cell	470.2	399.7	337.0	244.0	210.0	158.2	126.7	95.1	75.7	63.4	54.6	44.0	36.4	19.2
1.60V/cell	504.0	425.6	340.9	256.6	220.2	165.3	132.0	98.6	78.2	65.4	56.2	45.0	37.2	19.5

## 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	673.6	588.6	482.9	383.0	336.1	259.2	210.5	160.6	129.5	109.5	95.2	77.5	64.9	35.0
1.80V/cell	775.2	671.7	541.4	425.2	369.4	281.9	227.8	173.1	139.1	117.5	101.8	82.8	69.2	36.9
1.75V/cell	811.5	698.0	561.0	439.0	380.4	289.6	233.5	176.9	142.0	119.8	103.7	84.2	70.1	37.3
1.70V/cell	848.0	727.2	593.6	452.1	391.6	297.7	239.7	181.3	145.1	122.2	105.6	85.5	71.1	37.7
1.67V/cell	868.9	743.1	628.6	460.0	397.9	301.9	242.9	183.5	146.8	123.5	106.7	86.2	71.6	38.0
1.60V/cell	915.0	778.8	630.3	478.6	413.3	312.8	251.1	189.1	150.9	126.7	109.2	88.0	73.0	38.6



# LP Series-General Purpose LP2-350(2V350Ah)



## 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)

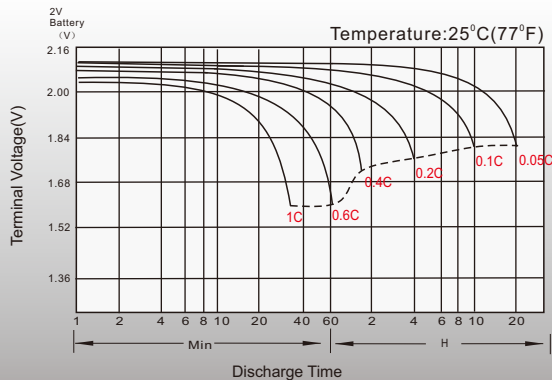
## General Features

- 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

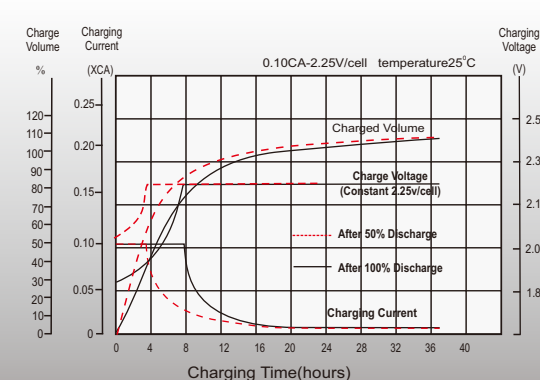
## Standards

- 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

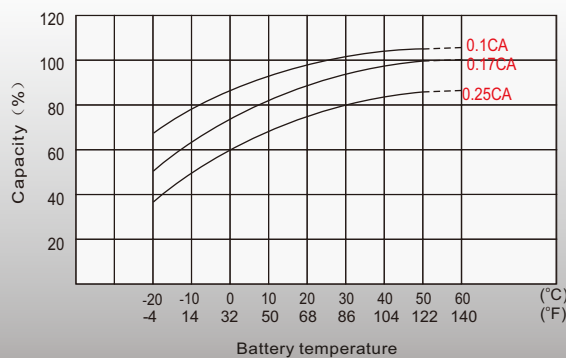
### Discharge Characteristics



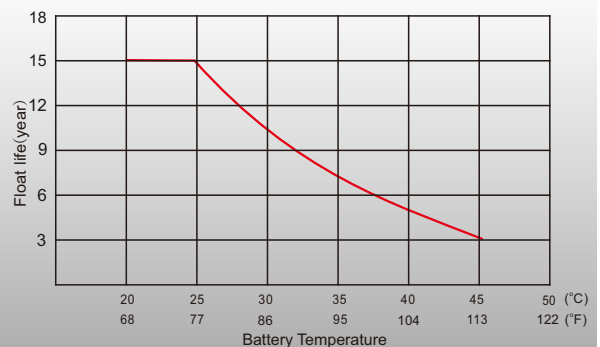
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



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