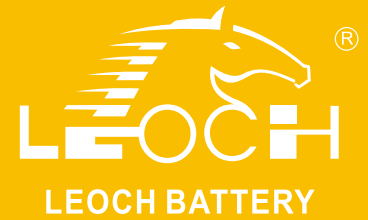




# LP Series-General Purpose LP2-65(2V65Ah)

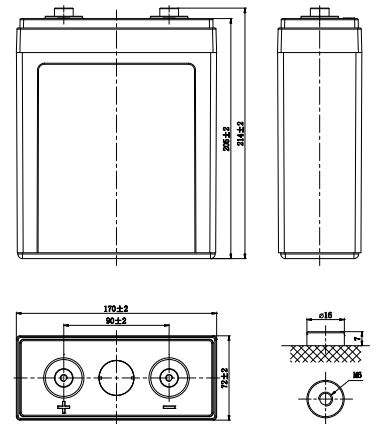


## Specifications

Rated Voltage	2V	
Nominal Capacity	65.0Ah	(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	4.5 Kg (9.92 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	68.2 Ah	(20hr, 3.41A, 1.80V/cell)
	65.0 Ah	(10hr, 6.50A, 1.80V/cell)
	57.5 Ah	(5hr, 11.5A, 1.75V/cell)
	49.5 Ah	(3hr, 16.5A, 1.75V/cell)
	41.6 Ah	(1hr, 41.6A, 1.60V/cell)
Max. Discharge Current	520A (5s)	
Internal Resistance (25°C)	Approx 1.2mΩ	
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 19.5A. 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 19.5A. 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)

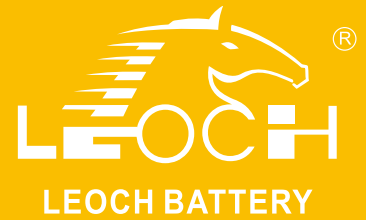
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	75.0	59.0	53.1	40.3	33.8	22.8	19.3	15.3	12.5	10.7	9.63	7.53	6.04	3.17
1.80V/cell	85.0	66.7	59.2	42.7	35.8	24.1	20.3	16.3	13.1	11.1	10.0	7.72	6.50	3.41
1.75V/cell	92.1	72.0	61.8	44.2	38.0	25.5	21.2	16.5	13.6	11.5	10.3	7.85	6.56	3.45
1.70V/cell	97.8	76.4	62.5	45.1	39.7	26.7	22.0	17.1	13.9	11.6	10.4	7.98	6.63	3.48
1.67V/cell	100.6	78.5	63.5	45.8	41.1	27.6	22.7	17.6	14.2	11.8	10.6	8.11	6.69	3.51
1.60V/cell	103.7	80.5	64.4	46.4	41.6	28.3	23.0	17.9	14.4	12.0	10.7	8.17	6.76	3.55

## 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	142.1	112.2	97.3	77.5	54.3	41.4	34.1	26.0	21.4	19.6	17.3	12.9	10.8	5.66
1.80V/cell	158.9	125.6	108.5	81.6	58.4	44.6	36.8	27.8	22.6	20.7	18.2	13.3	11.0	5.75
1.75V/cell	169.6	134.0	113.2	84.0	61.4	46.6	38.2	28.7	23.3	21.4	18.7	13.5	11.1	5.82
1.70V/cell	178.3	140.9	114.6	85.1	64.2	48.2	39.2	29.5	24.0	21.8	19.1	13.6	11.2	5.88
1.67V/cell	181.2	143.2	116.4	85.8	67.0	49.9	40.3	30.4	24.6	22.0	19.3	13.7	11.3	5.95
1.60V/cell	183.8	145.2	118.2	86.3	69.7	51.4	41.1	31.0	24.9	22.4	19.6	14.0	11.5	6.05



# LP Series-General Purpose LP2-65(2V65Ah)



## 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)

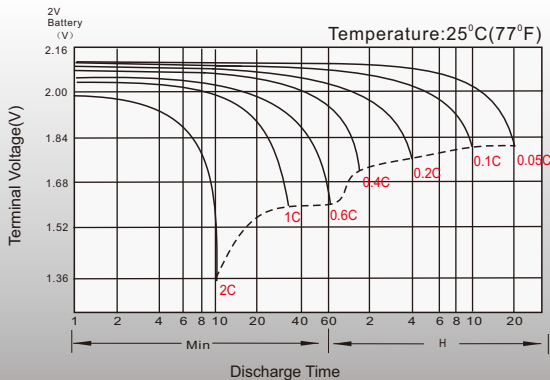
## General Features

- 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

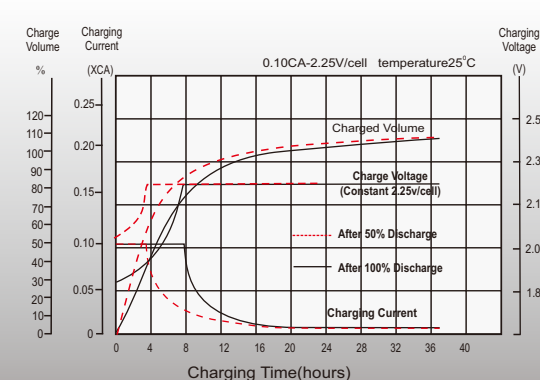
## Standards

- 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

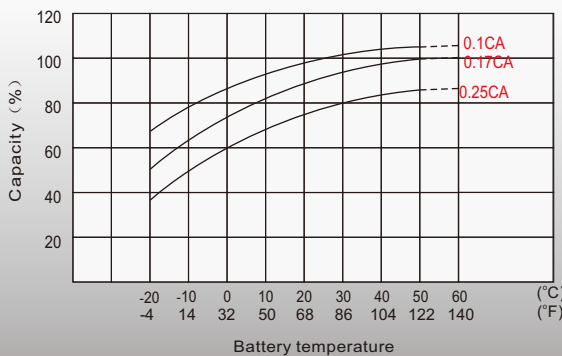
## Discharge Characteristics



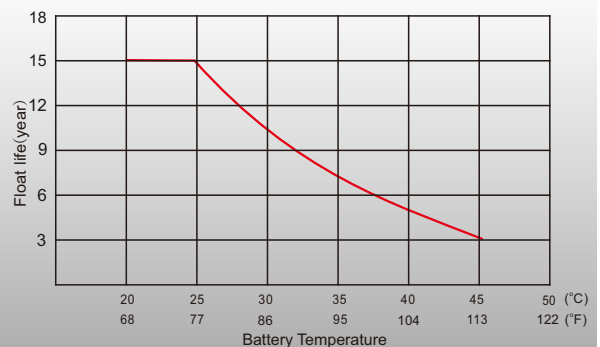
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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