



# LP Series-General Purpose LP6-8.5(6V8.5Ah)

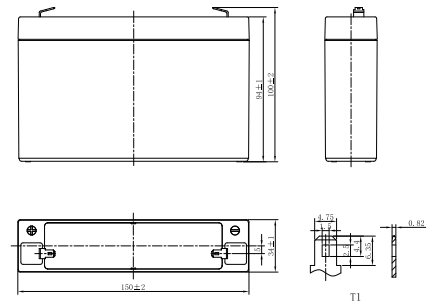


## Specifications

Rated Voltage	6V	
Nominal Capacity	8.5Ah	(C <sub>20</sub> , 1.75V/cell)
Dimension	Length	151±2mm (5.94 inches)
	Width	34±1mm (1.34 inches)
	Container Height	94±1mm (3.70 inches)
	Total Height	100±2mm (3.94 inches)
Approx Weight	1.20 Kg (2.65 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	8.50 Ah	(20hr, 0.425A, 1.75V/cell)
	7.68 Ah	(10hr, 0.768A, 1.75V/cell)
	6.90 Ah	(5hr, 1.38A, 1.75V/cell)
	6.12 Ah	(3hr, 2.04A, 1.75V/cell)
	5.72 Ah	(1hr, 5.72A, 1.60V/cell)
Max. Discharge Current	128A (5s)	
Internal Resistance (25°C)	Approx 14mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 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 2.55A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
Standby Use	Initial Charging Current less than 2.55A. Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°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

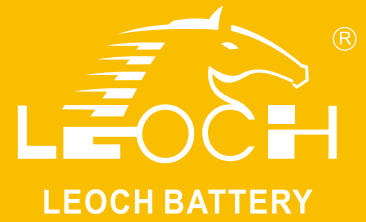


## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	29.4	19.4	14.9	11.9	8.79	6.39	5.17	3.70	2.84	1.98	1.57	1.34	1.15	0.904	0.750	0.415
1.80V/cell	31.6	20.6	15.7	12.4	9.06	6.56	5.30	3.78	2.89	2.01	1.60	1.36	1.17	0.917	0.761	0.420
1.75V/cell	33.3	21.4	16.2	12.8	9.30	6.70	5.41	3.85	2.95	2.04	1.62	1.38	1.18	0.927	0.768	0.425
1.70V/cell	34.9	22.2	16.7	13.1	9.54	6.85	5.51	3.92	2.99	2.07	1.64	1.40	1.19	0.937	0.776	0.428
1.67V/cell	36.1	22.9	17.1	13.4	9.70	6.96	5.59	3.97	3.02	2.09	1.66	1.41	1.20	0.944	0.781	0.432
1.60V/cell	38.3	23.8	17.7	13.8	10.0	7.14	5.72	4.05	3.08	2.13	1.69	1.43	1.22	0.957	0.791	0.436

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.6	36.9	28.6	23.0	17.0	12.4	10.1	7.23	5.56	3.88	3.10	2.65	2.27	1.79	1.49	0.831
1.80V/cell	59.2	38.9	29.8	23.8	17.4	12.7	10.3	7.36	5.65	3.94	3.14	2.68	2.30	1.82	1.51	0.840
1.75V/cell	61.7	40.1	30.6	24.3	17.8	12.9	10.4	7.47	5.74	3.99	3.18	2.71	2.33	1.84	1.52	0.850
1.70V/cell	64.0	41.5	31.5	24.9	18.2	13.1	10.6	7.58	5.81	4.04	3.22	2.74	2.35	1.85	1.54	0.857
1.67V/cell	65.7	42.4	32.1	25.4	18.5	13.3	10.7	7.66	5.86	4.08	3.24	2.76	2.37	1.87	1.55	0.863
1.60V/cell	68.3	43.6	33.0	26.0	18.9	13.6	10.9	7.79	5.96	4.14	3.29	2.80	2.40	1.89	1.57	0.873



# LP Series-General Purpose LP6-8.5(6V8.5Ah)

## Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

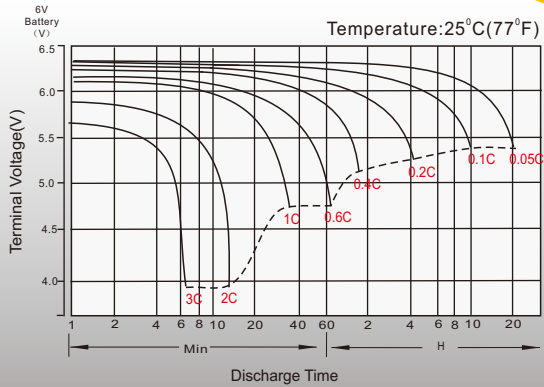
## General Features

- 5 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

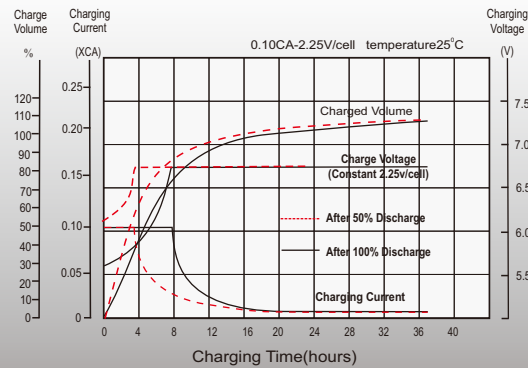
## Standards

- 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

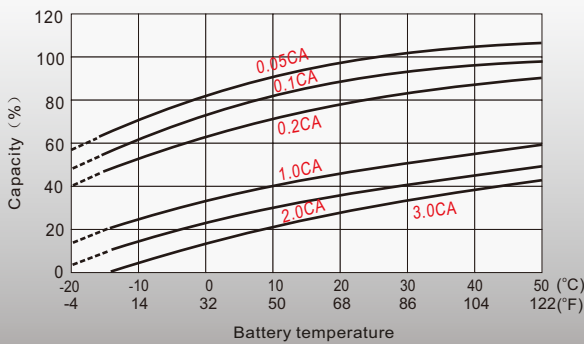
## Discharge Characteristics



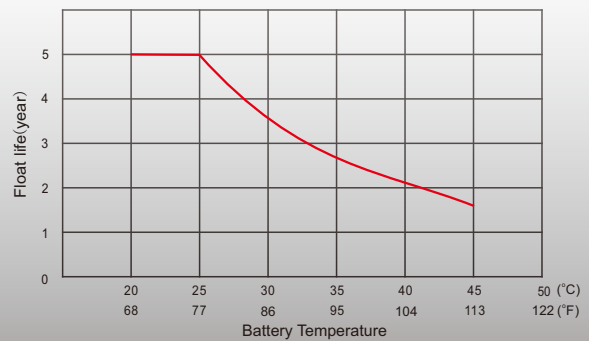
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Float Service Life



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