



# LP Series-General Purpose LP6-13(6V13Ah)

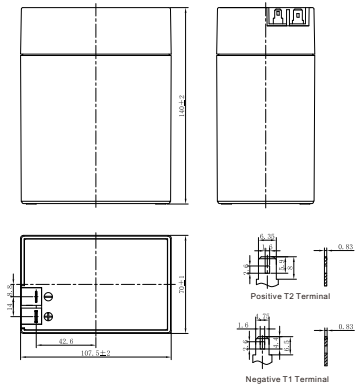


## Specifications

Rated Voltage	6V	
Nominal Capacity	13.0Ah	(C <sub>20</sub> , 1.75V/cell)
Dimension	Length	107.5±2mm (4.23 inches)
	Width	70±1mm (2.76 inches)
	Container Height	140±2mm (5.51 inches)
	Total Height	140±2mm (5.51 inches)
Approx Weight	2.24 Kg (4.94 lbs)	
Terminal	NT1/PT2	
Container Material	ABS	
Rated Capacity (25°C)	13.0 Ah	(20hr, 0.650A, 1.75V/cell)
	12.3 Ah	(10hr, 1.23A, 1.75V/cell)
	11.2 Ah	(5hr, 2.24A, 1.75V/cell)
	9.96 Ah	(3hr, 3.32A, 1.75V/cell)
	8.35 Ah	(1hr, 8.35A, 1.60V/cell)
Max. Discharge Current	195A (5s)	
Internal Resistance (25°C)	Approx 12mΩ	
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 3.9A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
Standby Use	Initial Charging Current less than 3.9A. 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	37.6	26.0	20.4	16.7	12.4	9.15	7.55	5.58	4.42	3.21	2.56	2.18	1.87	1.47	1.20	0.636
1.80V/cell	40.5	27.6	21.4	17.4	12.8	9.40	7.74	5.69	4.50	3.26	2.60	2.21	1.89	1.49	1.22	0.643
1.75V/cell	42.6	28.7	22.1	17.9	13.1	9.60	7.89	5.80	4.58	3.32	2.63	2.24	1.92	1.51	1.23	0.650
1.70V/cell	44.6	29.8	22.9	18.4	13.5	9.81	8.04	5.90	4.65	3.36	2.67	2.27	1.94	1.52	1.24	0.655
1.67V/cell	46.2	30.7	23.4	18.8	13.7	9.97	8.16	5.97	4.70	3.40	2.69	2.29	1.96	1.53	1.25	0.660
1.60V/cell	49.0	32.0	24.2	19.3	14.1	10.2	8.35	6.10	4.79	3.46	2.74	2.32	1.98	1.56	1.27	0.668

## 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	71.2	49.5	39.1	32.2	24.0	17.7	14.7	10.9	8.65	6.31	5.04	4.30	3.69	2.91	2.39	1.27
1.80V/cell	75.8	52.1	40.8	33.3	24.6	18.2	15.0	11.1	8.78	6.40	5.11	4.36	3.74	2.95	2.42	1.29
1.75V/cell	79.0	53.8	41.8	34.1	25.2	18.5	15.3	11.3	8.92	6.49	5.17	4.41	3.78	2.98	2.44	1.30
1.70V/cell	81.9	55.6	43.0	34.9	25.7	18.8	15.5	11.4	9.03	6.57	5.23	4.46	3.82	3.01	2.46	1.31
1.67V/cell	84.1	56.8	43.9	35.5	26.1	19.1	15.7	11.5	9.11	6.63	5.27	4.49	3.85	3.03	2.48	1.32
1.60V/cell	87.5	58.5	45.1	36.4	26.6	19.4	16.0	11.7	9.26	6.73	5.35	4.55	3.90	3.07	2.51	1.34



# LP Series-General Purpose LP6-13(6V13Ah)



## 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

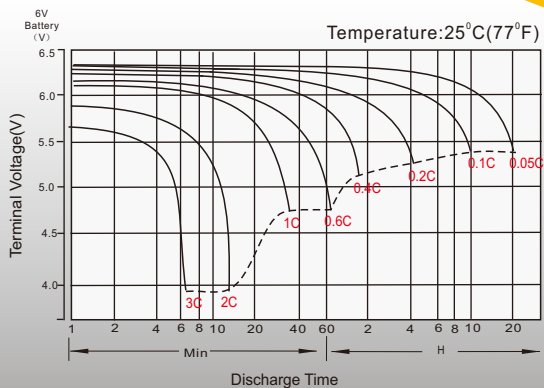
## General Features

- 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

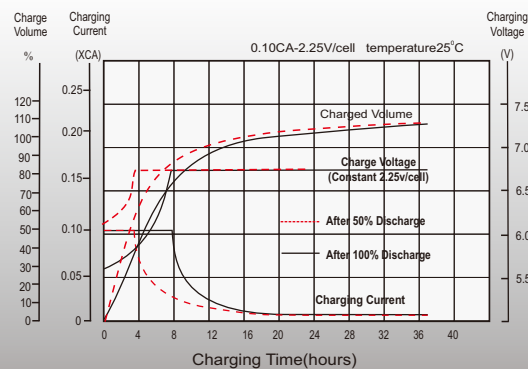
## Standards

- 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

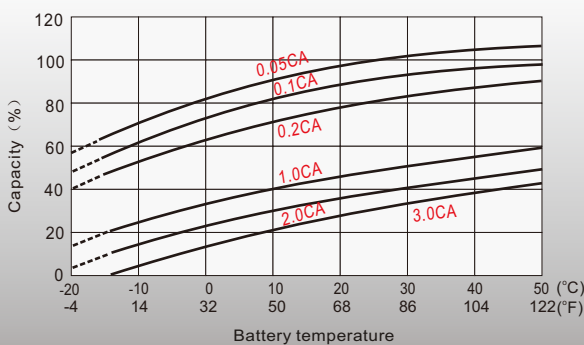
## Discharge Characteristics



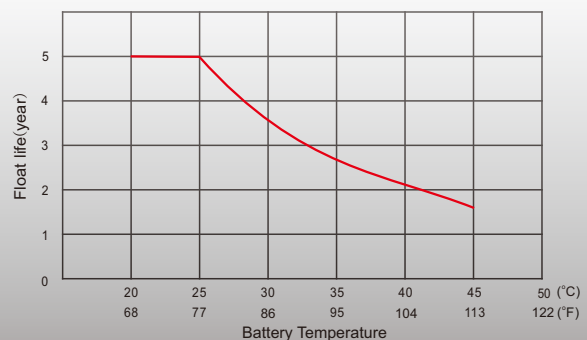
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Float Service Life



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