



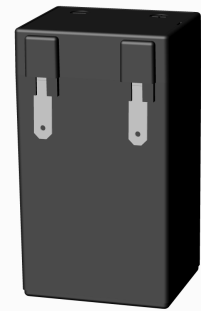
# LP Series-General Purpose

## LP6-2.0(6V2.0Ah)

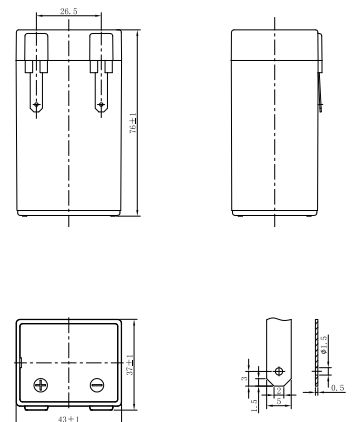


### Specifications

Rated Voltage	6V	
Nominal Capacity	2.0Ah	(C <sub>20</sub> , 1.75V/cell)
Dimension	Length	43±1mm (1.69 inches)
	Width	37±1mm (1.46 inches)
	Container Height	76±1mm (2.99 inches)
	Total Height	76±1mm (2.99 inches)
Approx Weight	0.34 Kg (0.75 lbs)	
Terminal	\	
Container Material	ABS	
Rated Capacity (25°C)	2.00 Ah	(20hr, 0.100A, 1.75V/cell)
	1.89 Ah	(10hr, 0.189A, 1.75V/cell)
	1.77 Ah	(5hr, 0.353A, 1.75V/cell)
	1.51 Ah	(3hr, 0.504A, 1.75V/cell)
	1.20 Ah	(1hr, 1.20A, 1.60V/cell)
Max. Discharge Current	30A (5s)	
Internal Resistance (25°C)	Approx 45mΩ	
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 0.6A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
Standby Use	Initial Charging Current less than 0.6A. 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	5.42	3.86	3.15	2.46	1.81	1.32	1.08	0.812	0.657	0.488	0.399	0.343	0.294	0.232	0.185	0.098
1.80V/cell	5.83	4.09	3.31	2.56	1.87	1.36	1.11	0.829	0.669	0.496	0.405	0.348	0.299	0.235	0.187	0.099
1.75V/cell	6.14	4.25	3.42	2.63	1.92	1.39	1.13	0.845	0.681	0.504	0.410	0.353	0.302	0.238	0.189	0.100
1.70V/cell	6.43	4.42	3.53	2.71	1.97	1.42	1.15	0.859	0.691	0.511	0.416	0.358	0.306	0.240	0.191	0.101
1.67V/cell	6.66	4.55	3.62	2.76	2.00	1.44	1.17	0.870	0.699	0.516	0.420	0.361	0.308	0.242	0.192	0.102
1.60V/cell	7.06	4.74	3.74	2.85	2.05	1.48	1.20	0.889	0.713	0.526	0.427	0.367	0.313	0.245	0.195	0.103

### 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	10.3	7.34	6.04	4.74	3.50	2.57	2.11	1.59	1.29	0.959	0.786	0.678	0.582	0.459	0.367	0.196
1.80V/cell	10.9	7.73	6.30	4.91	3.60	2.63	2.15	1.61	1.31	0.973	0.796	0.687	0.590	0.466	0.372	0.198
1.75V/cell	11.4	7.98	6.47	5.02	3.67	2.67	2.19	1.64	1.33	0.986	0.806	0.695	0.596	0.470	0.375	0.200
1.70V/cell	11.8	8.24	6.64	5.13	3.75	2.72	2.22	1.66	1.34	0.998	0.815	0.703	0.602	0.475	0.379	0.202
1.67V/cell	12.1	8.43	6.79	5.23	3.81	2.76	2.25	1.68	1.36	1.007	0.822	0.708	0.607	0.478	0.381	0.203
1.60V/cell	12.6	8.68	6.97	5.36	3.89	2.81	2.29	1.71	1.38	1.023	0.834	0.718	0.615	0.484	0.386	0.205



# LP Series-General Purpose LP6-2.0(6V2.0Ah)



## 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

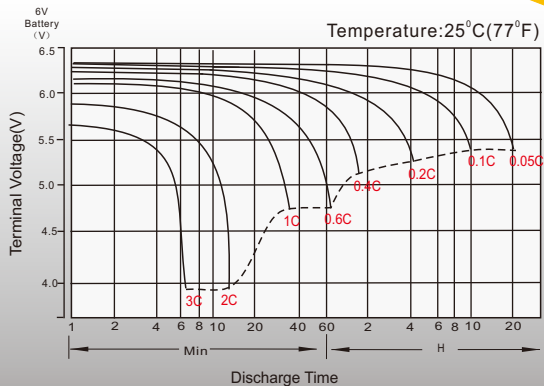
## General Features

- 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

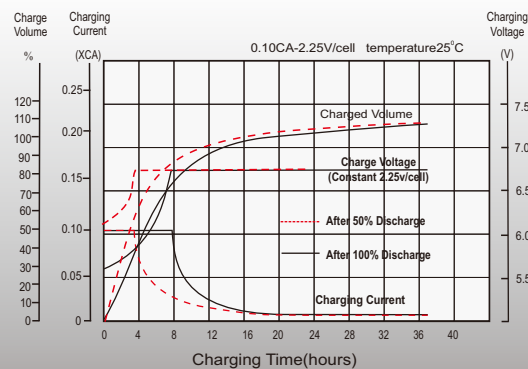
## Standards

- 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

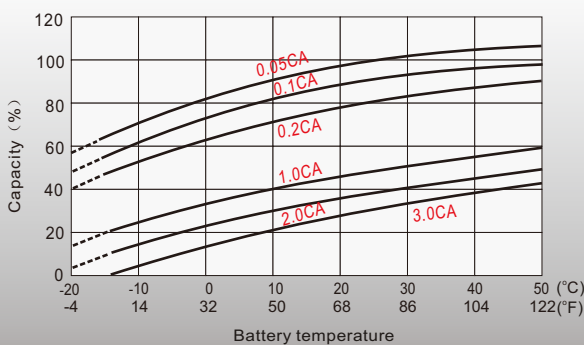
## Discharge Characteristics



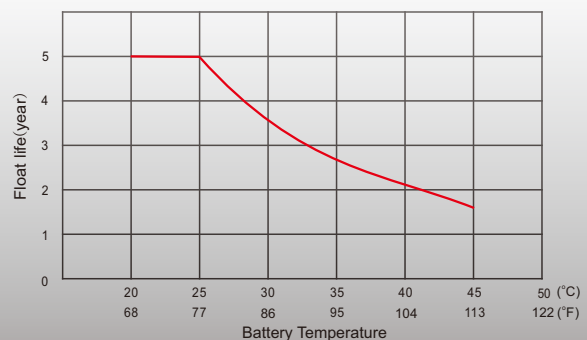
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Float Service Life



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