



LP Series-General Purpose

LP6-4.5S(6V5.0Ah)

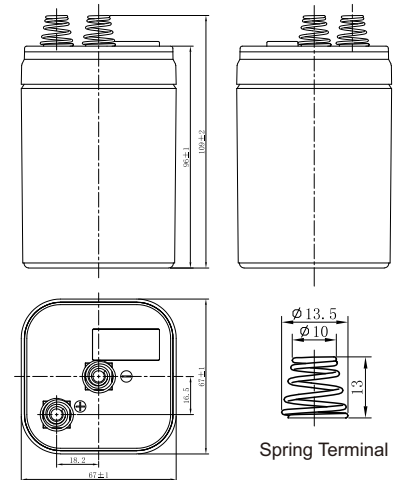


Specifications

Rated Voltage	6V	
Nominal Capacity	5.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	67±1mm (2.64 inches)
	Width	67±1mm (2.64 inches)
	Container Height	96±1mm (3.78 inches)
	Total Height	109±2mm (4.29 inches)
Approx Weight	0.78 Kg (1.72 lbs)	
Terminal	Spring Terminal	
Container Material	ABS	
Rated Capacity (25°C)	5.00 Ah	(20hr, 0.250A, 1.75V/cell)
	4.73 Ah	(10hr, 0.473A, 1.75V/cell)
	3.78 Ah	(5hr, 0.755A, 1.75V/cell)
	4.14 Ah	(3hr, 1.38A, 1.75V/cell)
	3.63 Ah	(1hr, 3.63A, 1.60V/cell)
Max. Discharge Current	75A (5s)	
Internal Resistance (25°C)	Approx 60mΩ	
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 1.35A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
	Standby Use	
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)

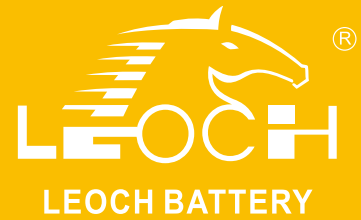
F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.28	2.38	1.87	1.33	1.05	0.875	0.735	0.579	0.462	0.244
1.80V/cell	3.36	2.43	1.90	1.36	1.07	0.887	0.747	0.588	0.468	0.247
1.75V/cell	3.43	2.48	1.93	1.38	1.08	0.899	0.755	0.594	0.473	0.250
1.70V/cell	3.50	2.52	1.96	1.40	1.10	0.911	0.764	0.600	0.478	0.252
1.67V/cell	3.55	2.55	1.98	1.41	1.11	0.919	0.771	0.605	0.481	0.254
1.60V/cell	3.63	2.61	2.03	1.44	1.13	0.934	0.782	0.613	0.487	0.257

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

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.39	4.65	3.65	2.62	2.07	1.73	1.45	1.15	0.918	0.489
1.80V/cell	6.52	4.73	3.71	2.66	2.10	1.75	1.48	1.16	0.930	0.495
1.75V/cell	6.63	4.81	3.77	2.70	2.13	1.77	1.49	1.18	0.938	0.500
1.70V/cell	6.73	4.88	3.81	2.73	2.15	1.79	1.51	1.19	0.947	0.504
1.67V/cell	6.82	4.93	3.85	2.75	2.17	1.80	1.52	1.20	0.954	0.508
1.60V/cell	6.94	5.01	3.91	2.80	2.20	1.83	1.54	1.21	0.965	0.514



LP Series-General Purpose LP6-4.5S(6V5.0Ah)



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

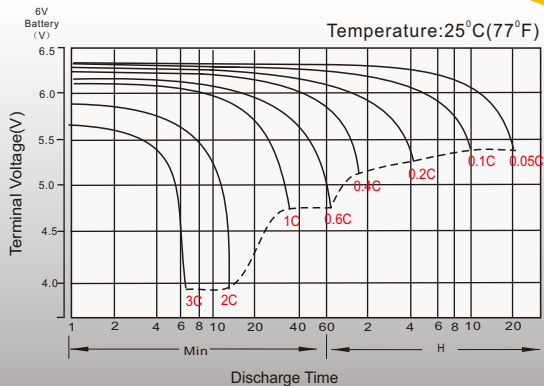
General Features

- 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

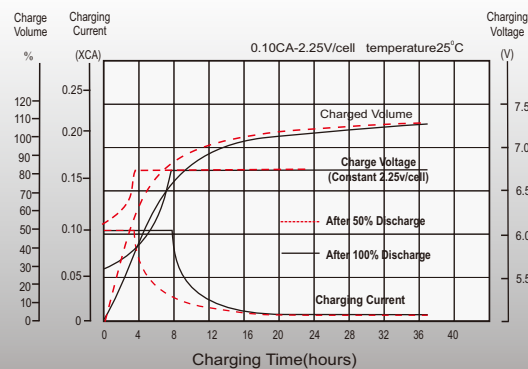
Standards

- 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

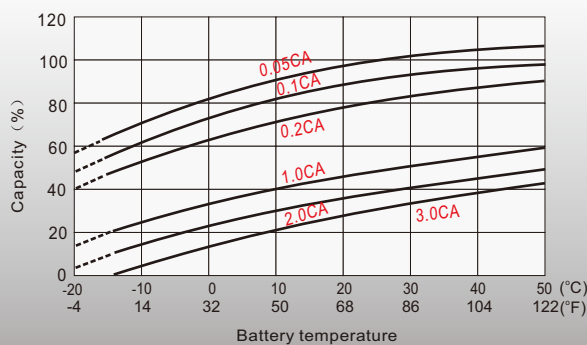
Discharge Characteristics



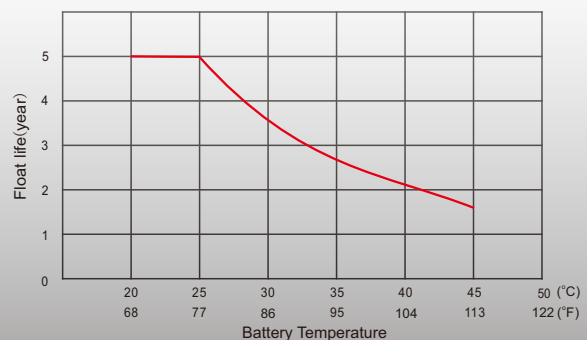
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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