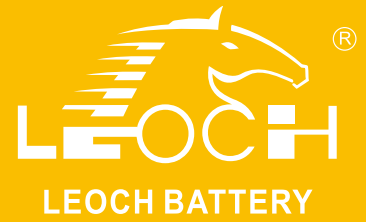




LP Series-General Purpose

LP6-6.0(6V6.0Ah)

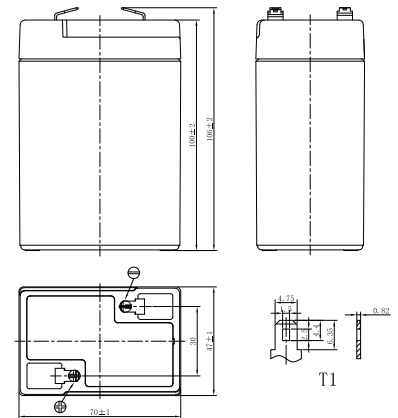


Specifications

Rated Voltage	6V	
Nominal Capacity	6.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	70±1mm (2.76 inches)
	Width	47±1mm (1.85 inches)
	Container Height	100±2mm (3.94 inches)
	Total Height	106±2mm (4.17 inches)
Approx Weight	0.90 Kg (1.98 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	6.00 Ah	(20hr, 0.300A, 1.75V/cell)
	5.52 Ah	(10hr, 0.552A, 1.75V/cell)
	5.05 Ah	(5hr, 1.01A, 1.75V/cell)
	4.14 Ah	(3hr, 1.38A, 1.75V/cell)
	3.68 Ah	(1hr, 3.68A, 1.60V/cell)
Max. Discharge Current	90A (5s)	
Internal Resistance (25°C)	Approx 16mΩ	
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 1.8A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C	
	Initial Charging Current less than 1.8A. Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C	
Standby Use	Initial Charging Current less than 1.8A. 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)

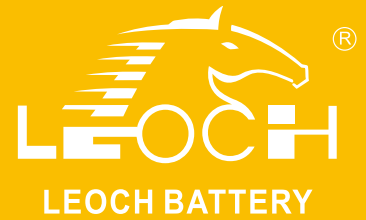
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.9	12.7	9.79	7.96	5.76	4.14	3.33	2.40	1.85	1.33	1.10	0.941	0.820	0.649	0.539	0.294
1.80V/cell	19.2	13.4	10.3	8.28	5.94	4.25	3.41	2.45	1.88	1.36	1.11	0.982	0.828	0.658	0.546	0.297
1.75V/cell	20.3	14.0	10.6	8.51	6.09	4.34	3.48	2.49	1.92	1.38	1.13	1.01	0.839	0.676	0.552	0.300
1.70V/cell	21.2	14.5	11.0	8.76	6.25	4.44	3.55	2.53	1.95	1.40	1.14	1.03	0.860	0.684	0.559	0.303
1.67V/cell	22.0	15.0	11.2	8.94	6.36	4.51	3.60	2.57	1.97	1.41	1.16	1.01	0.871	0.692	0.566	0.305
1.60V/cell	23.3	15.6	11.6	9.20	6.53	4.62	3.68	2.62	2.01	1.44	1.18	1.02	0.882	0.701	0.570	0.309

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	33.8	24.1	18.7	15.3	11.1	8.03	6.48	4.68	3.62	2.62	2.21	1.89	1.66	1.32	1.08	0.588
1.80V/cell	36.0	25.4	19.5	15.9	11.4	8.22	6.62	4.76	3.68	2.66	2.24	1.91	1.67	1.33	1.08	0.594
1.75V/cell	37.5	26.2	20.1	16.2	11.7	8.36	6.72	4.83	3.73	2.70	2.27	1.93	1.69	1.34	1.10	0.600
1.70V/cell	38.9	27.1	20.6	16.6	11.9	8.52	6.83	4.91	3.78	2.73	2.29	1.96	1.70	1.35	1.11	0.606
1.67V/cell	40.0	27.7	21.1	16.9	12.1	8.63	6.92	4.96	3.81	2.75	2.31	1.98	1.72	1.37	1.12	0.610
1.60V/cell	41.6	28.5	21.6	17.3	12.4	8.79	7.04	5.04	3.88	2.80	2.33	2.01	1.74	1.39	1.13	0.619



LP Series-General Purpose LP6-6.0(6V6.0Ah)



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

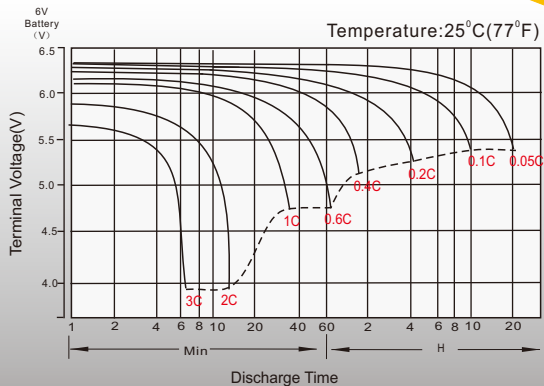
General Features

- 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

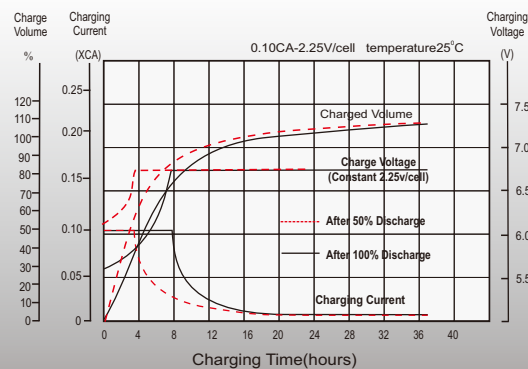
Standards

- 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

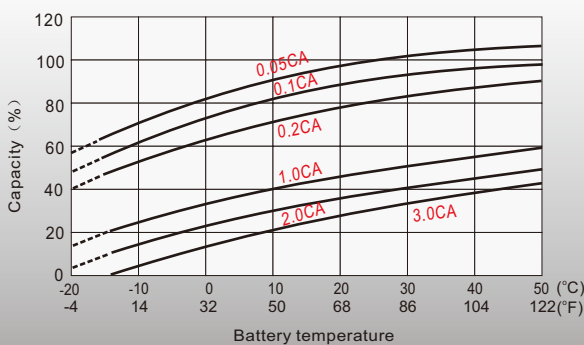
Discharge Characteristics



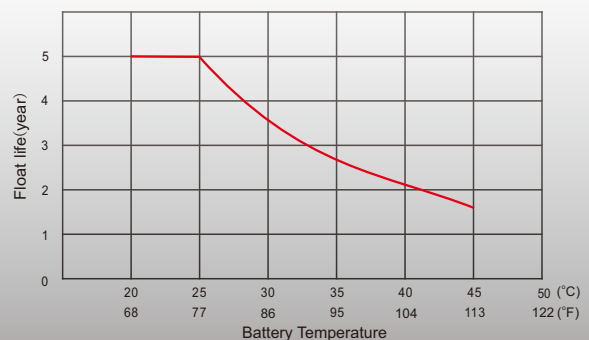
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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