



LP Series-General Purpose

LP8-3.2(8V3.2Ah)

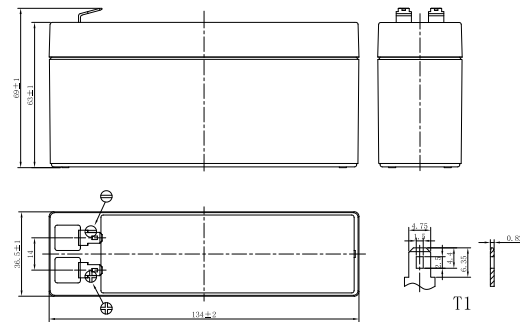


Specifications

Rated Voltage	8V	
Nominal Capacity	3.2Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	134±2mm (5.28 inches)
	Width	36.5±1mm (1.44 inches)
	Container Height	63±1mm (2.18 inches)
	Total Height	69±1mm (2.71 inches)
Approx Weight	0.75 Kg (1.65 lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity (25°C)	3.20 Ah	(20hr, 0.160A, 1.75V/cell)
	3.03 Ah	(10hr, 0.303A, 1.75V/cell)
	2.83 Ah	(5hr, 0.565A, 1.75V/cell)
	2.42 Ah	(3hr, 0.806A, 1.75V/cell)
	1.92 Ah	(1hr, 1.92A, 1.60V/cell)
Max. Discharge Current	48A (5s)	
Internal Resistance (25°C)	Approx 38mΩ	
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 0.96A. Voltage 9.6V~10.0V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 0.96A. Voltage 9.0V~9.2V at 25°C(77°F)Temp. Coefficient -12mV/°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	8.68	5.81	4.54	3.80	2.88	2.12	1.74	1.30	1.05	0.781	0.638	0.549	0.471	0.371	0.296	0.156
1.80V/cell	9.33	6.16	4.76	3.95	2.97	2.17	1.78	1.33	1.07	0.793	0.648	0.557	0.478	0.376	0.300	0.158
1.75V/cell	9.83	6.41	4.92	4.06	3.05	2.22	1.81	1.35	1.09	0.806	0.656	0.565	0.483	0.380	0.303	0.160
1.70V/cell	10.3	6.66	5.09	4.18	3.13	2.27	1.85	1.37	1.11	0.818	0.665	0.572	0.489	0.384	0.306	0.161
1.67V/cell	10.6	6.85	5.21	4.26	3.18	2.31	1.88	1.39	1.12	0.826	0.672	0.577	0.493	0.387	0.308	0.163
1.60V/cell	11.3	7.14	5.39	4.39	3.27	2.36	1.92	1.42	1.14	0.841	0.684	0.586	0.501	0.393	0.312	0.164

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	16.4	11.1	8.69	7.32	5.58	4.11	3.38	2.54	2.06	1.53	1.26	1.09	0.931	0.735	0.588	0.313
1.80V/cell	17.5	11.6	9.07	7.57	5.72	4.20	3.45	2.58	2.09	1.56	1.27	1.10	0.944	0.745	0.595	0.317
1.75V/cell	18.2	12.0	9.31	7.73	5.84	4.28	3.50	2.62	2.12	1.58	1.29	1.11	0.954	0.752	0.600	0.320
1.70V/cell	18.9	12.4	9.56	7.92	5.97	4.36	3.56	2.66	2.15	1.60	1.30	1.13	0.964	0.760	0.606	0.323
1.67V/cell	19.4	12.7	9.77	8.06	6.06	4.42	3.61	2.69	2.17	1.61	1.31	1.13	0.972	0.765	0.610	0.325
1.60V/cell	20.2	13.1	10.0	8.26	6.19	4.50	3.67	2.74	2.20	1.64	1.33	1.15	0.983	0.775	0.618	0.329



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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

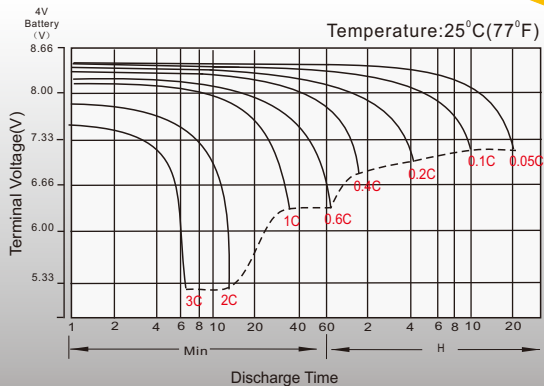
General Features

- 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

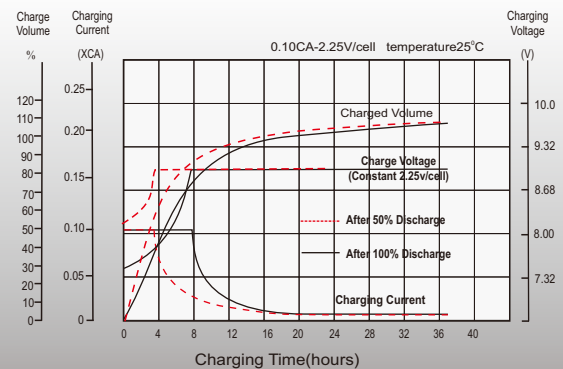
Standards

- 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

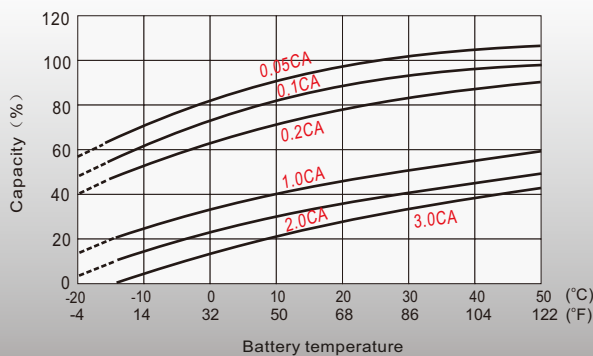
Discharge Characteristics



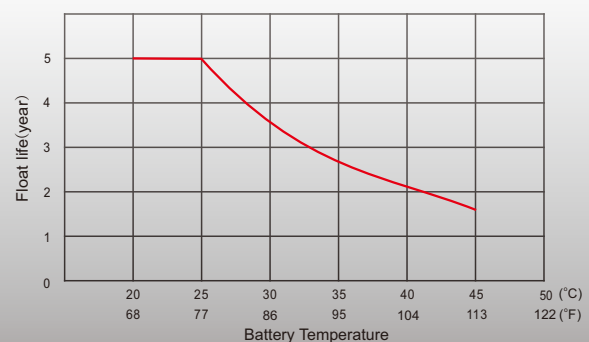
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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