

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

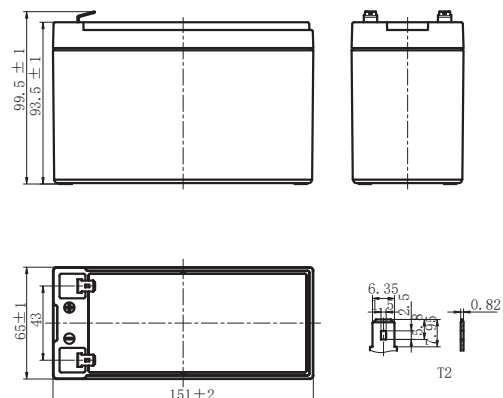
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in ALLSAI TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Communication power supply
- Alarm and security system
- DC power supply
- Auto control system



Layout



LP SERIES

General Purpose

LP12-9.0P(12V9.0Ah)

Specifications

Rated Voltage	12V	
Nominal Capacity	9.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height	99.5±1mm (3.90 inches)
Approx Weight	2.35 Kg (5.18 lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity (25°C)	9.00 Ah	(20hr, 0.450A, 1.75V/cell)
	8.38 Ah	(10hr, 0.838A, 1.75V/cell)
	7.65 Ah	(5hr, 1.53A, 1.75V/cell)
	6.75 Ah	(3hr, 2.25A, 1.75V/cell)
	5.50 Ah	(1hr, 5.50A, 1.67V/cell)
Max. Discharge Current	135A (5s)	
Internal Resistance (25°C)	Approx 23.0mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°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 2.70A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.70A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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.	

LP SERIES General Purpose

LP12-9.0P(12V9.0Ah)

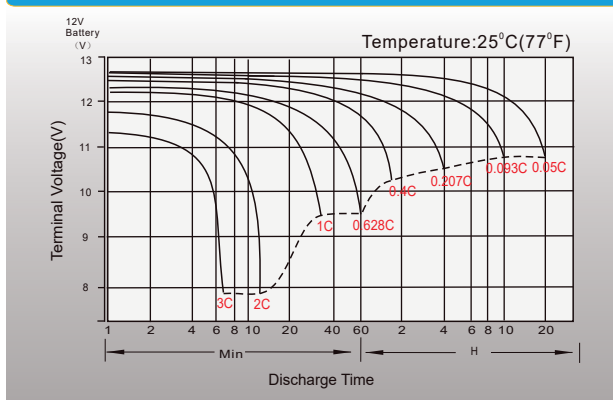
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.5	17.3	13.7	11.2	8.30	6.10	5.10	3.03	2.18	1.75	1.49	1.28	1.00	0.818	0.440
1.80V/cell	25.5	18.2	14.3	11.6	8.50	6.20	5.20	3.08	2.22	1.78	1.51	1.29	1.01	0.828	0.445
1.75V/cell	27.6	19.1	14.8	11.9	8.70	6.40	5.30	3.13	2.25	1.80	1.53	1.31	1.03	0.838	0.450
1.70V/cell	29.6	20.0	15.3	12.2	8.90	6.50	5.40	3.18	2.28	1.83	1.55	1.33	1.04	0.848	0.454
1.67V/cell	30.9	20.5	15.6	12.5	9.10	6.60	5.50	3.20	2.30	1.84	1.56	1.34	1.05	0.854	0.457
1.60V/cell	33.6	21.7	16.4	12.9	9.30	6.70	5.60	3.27	2.35	1.88	1.59	1.36	1.06	0.867	0.464

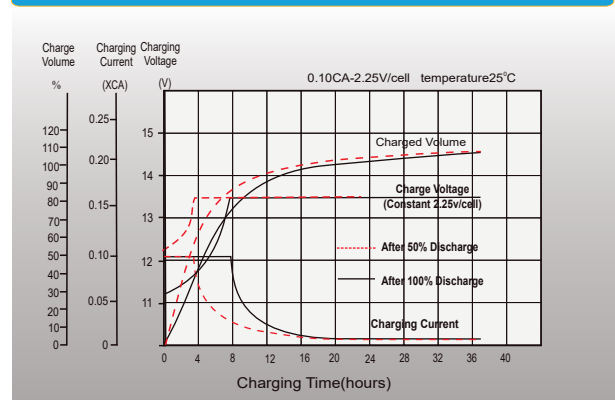
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	44.7	33.1	26.4	21.6	16.1	11.9	10.0	5.93	4.29	3.45	2.94	2.52	1.99	1.63	0.881
1.80V/cell	48.2	34.6	27.3	22.1	16.4	12.1	10.1	6.01	4.35	3.50	2.98	2.55	2.01	1.64	0.890
1.75V/cell	51.7	36.1	28.1	22.7	16.8	12.3	10.3	6.09	4.40	3.54	3.01	2.58	2.03	1.66	0.899
1.70V/cell	55.2	37.6	29.0	23.3	17.1	12.4	10.4	6.17	4.46	3.58	3.05	2.61	2.06	1.68	0.909
1.67V/cell	57.3	38.5	29.5	23.6	17.3	12.6	10.5	6.22	4.49	3.60	3.07	2.63	2.07	1.69	0.914
1.60V/cell	61.8	40.4	30.6	24.3	17.7	12.8	10.7	6.32	4.57	3.66	3.12	2.67	2.10	1.72	0.927

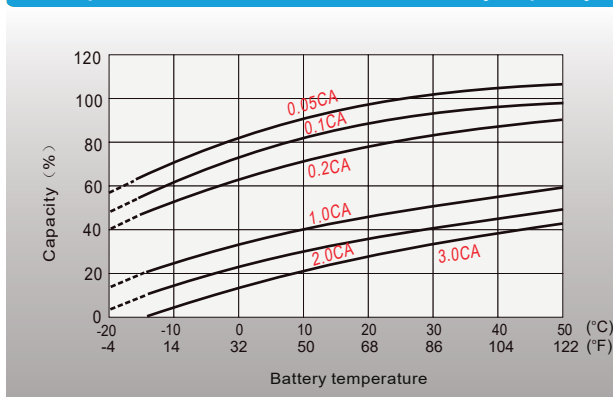
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life

