

Applications

- Emergency backup power supply
- All purpose
- Aircraft signal
- Auto control system
- UPS
- EPS
- Alarm and security system
- Communication power supply
- DC power supply

General Features

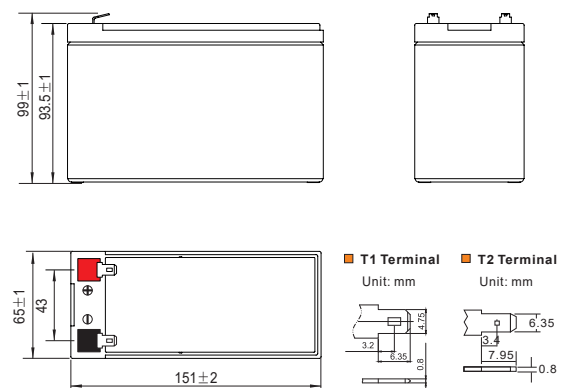
- Using oxygen recombination technology: maintenance-free
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

Standards

- IEC 60896 Certified
- Classified as "Standard commercial" according to Eurobat
- UL Certified
- Approved as non-hazardous cargo for ground, sea and air transportation in accordance with ICAO, IATA and IMDG



Layout



Specification

Nominal Voltage	12V
Rated Capacity	7.0Ah (C ₂₀ , 1.80V/cell)
Dimensions	Length 151mm (5.95 inches)
	Width 65mm (2.54 inches)
	Container Height 93.5mm (3.68 inches)
	Total Height (with Terminal) 99.5mm (3.92 inches)
Approx Weight	Approx 2.0 kg (4.41lbs)
Terminal	T1/T2
Container Material	ABS
Capacity (25°C/77°F)	7.00 Ah (20hr, 0.350A, 1.80V/cell)
	6.51 Ah (10hr, 0.651A, 1.80V/cell)
	6.00 Ah (5hr, 1.20A, 1.75V/cell)
	5.37 Ah (3hr, 1.79A, 1.75V/cell)
	4.37 Ah (1hr, 4.37A, 1.67V/cell)
Max. Discharge Current	105A (5s)
Internal Resistance	Approx 30.0mΩ
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~50°C (5~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Boost Charge	Initial Charging Current less than 2.1A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
Standby Use	Initial Charging Current less than 2.1A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 106%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge (3%/month)	ALLSAI 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.

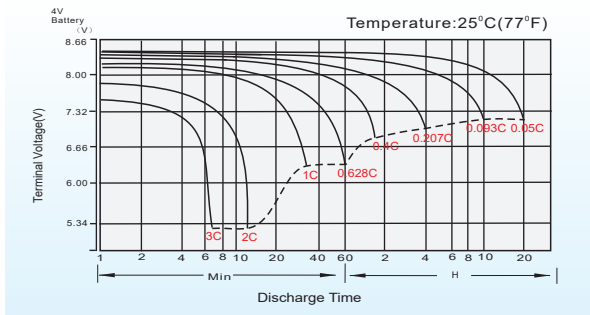
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.4	12.8	10.6	8.70	6.63	4.94	4.09	3.03	2.41	1.73	1.38	1.17	1.00	0.788	0.643	0.346
1.80V/cell	18.9	13.5	11.0	8.98	6.79	5.04	4.17	3.08	2.45	1.76	1.40	1.19	1.02	0.798	0.651	0.350
1.75V/cell	20.4	14.1	11.4	9.24	6.95	5.14	4.25	3.14	2.49	1.79	1.42	1.20	1.03	0.808	0.659	0.354
1.70V/cell	22.0	14.8	11.8	9.52	7.11	5.23	4.32	3.19	2.53	1.81	1.44	1.22	1.04	0.818	0.667	0.357
1.67V/cell	22.9	15.2	12.1	9.68	7.21	5.29	4.37	3.22	2.55	1.83	1.45	1.23	1.05	0.824	0.672	0.359
1.60V/cell	24.9	16.1	12.6	10.1	7.43	5.43	4.47	3.29	2.60	1.86	1.48	1.25	1.07	0.837	0.682	0.365

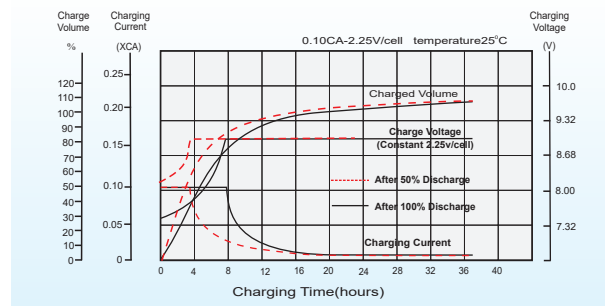
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	33.1	24.5	20.3	16.8	12.8	9.58	7.96	5.93	4.72	3.41	2.72	2.32	1.98	1.56	1.28	0.693
1.80V/cell	35.7	25.6	21.0	17.2	13.1	9.73	8.09	6.01	4.78	3.45	2.75	2.34	2.01	1.58	1.29	0.700
1.75V/cell	38.3	26.7	21.7	17.6	13.3	9.89	8.20	6.09	4.84	3.49	2.78	2.37	2.03	1.60	1.31	0.707
1.70V/cell	40.9	27.8	22.3	18.1	13.6	10.0	8.32	6.17	4.91	3.54	2.82	2.40	2.05	1.62	1.32	0.715
1.67V/cell	42.5	28.5	22.7	18.3	13.7	10.1	8.39	6.22	4.95	3.56	2.83	2.41	2.07	1.63	1.33	0.719
1.60V/cell	45.8	30.0	23.6	18.9	14.1	10.3	8.55	6.33	5.03	3.62	2.88	2.45	2.10	1.65	1.35	0.729

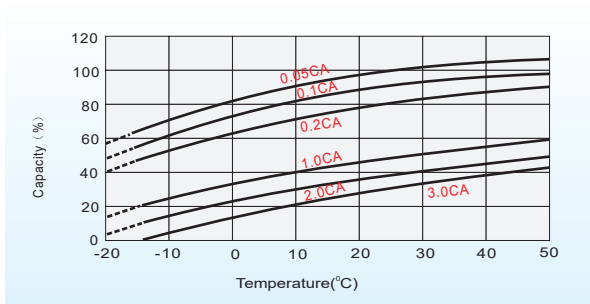
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

