

lead-acid battery 12V4.5AH

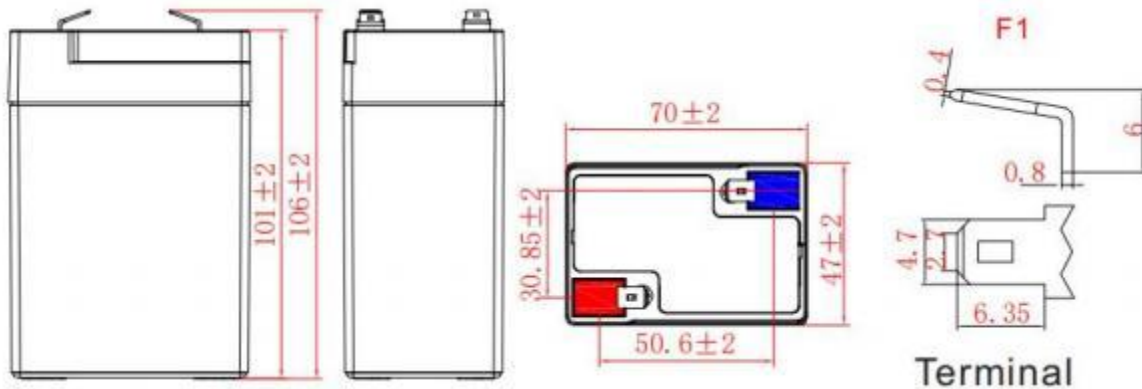
General Features

- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ High energy density and power density
- ▶ Optimized capability of instant high-current discharging
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology



Dimension: 70(L) × 47(W) × 101(H) × 106(TH) / (±2.0)

Unit: mm



Specification	
Nominal Voltage	6V
Nominal Capacity	5.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 0.75kg±3% (1.65lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	200A
Internal resistance(Full charged at 25°C:)	30.0 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50°C(-4~ 122°F)
Charge :	-20 ~50°C(-4~ 122°F)
Storage:	-20 ~50°C(-4~ 122°F)
Charge Method(25 °C)	
Charge current:	Max. 1.25A;Recom.0.50A
Float charge:6.75-6.90V	recom.6.75V(-9mV/ °C)
Equalize charge:6.90-7.05V	recom.7.05V(-12mV/ °C)
Cycle charge:7.20-7.50V	recom.7.35V(-15mV/ °C)

Standards

Executive standard: IEC 61056-2, GB/T 19639.1-2014

Applications

- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

Rated Capacity

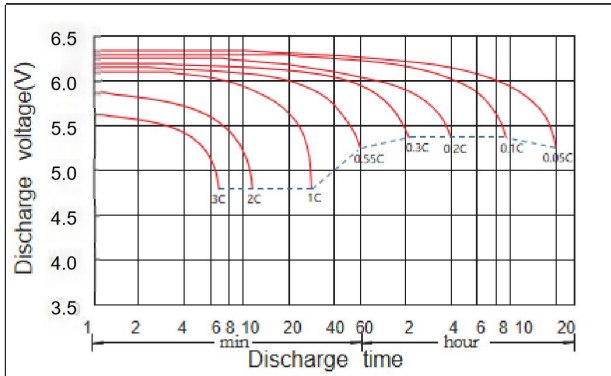
20Hour Rate (0.225A to 5.25V)	4.5Ah
3Hour Rate (1.17A to 5.10V)	3.51Ah
1Hour Rate (2.78A to 4.80V)	2.78Ah

Attain Certificate

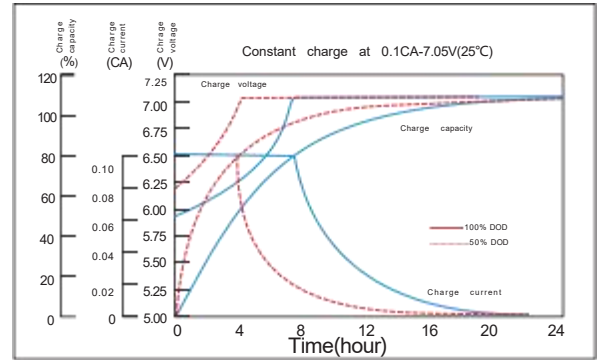


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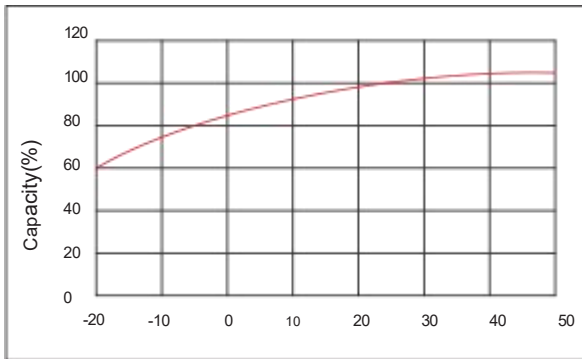
Discharge characteristic



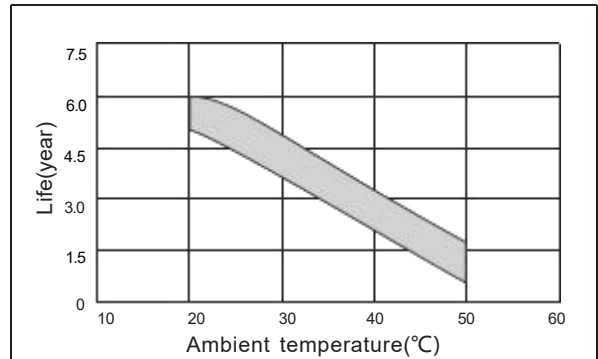
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



Constant Current Discharge Characteristics Unit:A (25 ,77)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	16.69	11.60	8.46	5.00	3.54	2.78	1.99	1.67	1.26	0.99	0.83	0.713	0.540	0.442	0.233
1.65V	15.76	10.94	8.01	4.75	3.38	2.65	1.92	1.61	1.22	0.96	0.81	0.698	0.533	0.437	0.230
1.70V	14.36	10.15	7.50	4.59	3.26	2.56	1.86	1.56	1.17	0.94	0.79	0.675	0.525	0.430	0.227
1.75V	13.00	9.49	7.23	4.38	3.11	2.46	1.78	1.51	1.15	0.91	0.77	0.655	0.518	0.425	0.225
1.80V	11.41	8.60	6.68	4.19	2.99	2.37	1.73	1.46	1.11	0.89	0.75	0.632	0.509	0.420	0.222
1.85V	9.06	6.99	5.54	3.61	2.61	2.12	1.60	1.33	1.03	0.83	0.70	0.601	0.478	0.395	0.209

Constant Power Discharge Characteristics Unit: W/cell (25 ,77)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	27.93	19.15	14.64	9.08	6.70	5.23	3.80	3.16	2.38	1.90	1.61	1.381	1.054	0.869	0.459
1.65V	26.42	18.55	14.20	8.81	6.37	5.09	3.75	3.07	2.32	1.86	1.57	1.335	1.044	0.860	0.453
1.70V	24.63	17.67	13.50	8.50	6.10	4.86	3.62	2.99	2.26	1.82	1.53	1.301	1.030	0.848	0.448
1.75V	22.79	16.97	13.21	8.21	5.98	4.76	3.49	2.90	2.22	1.78	1.50	1.273	1.018	0.838	0.445
1.80V	20.43	15.63	12.37	7.93	5.78	4.56	3.40	2.83	2.16	1.73	1.47	1.245	1.003	0.826	0.439
1.85V	16.56	13.00	10.41	6.89	5.13	4.15	3.13	2.59	2.01	1.62	1.37	1.187	0.944	0.781	0.414