

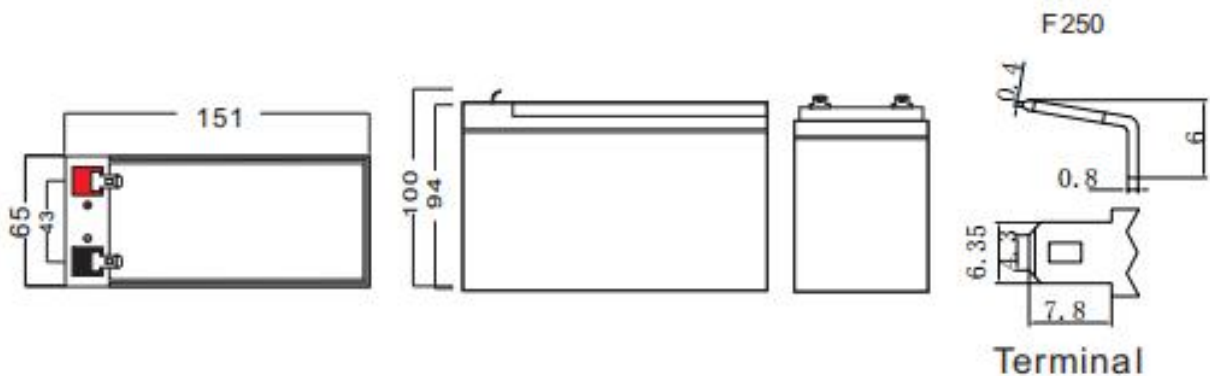
General Features

- ▶ 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
- ▶ Long life



Dimension: 151(L) × 65(W) × 94(H) × 100(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	9.0Ah(38W@15min-rate to 1.67V percell@25°C)
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx2.51kg (5.53lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	666A
Internal resistance(Full charged at 25°C:)	18.0 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. 2.7A;Recom.0.9A
Float charge:13.5-13.8V	recom.13.8V(-18mV/ °C)
Equalize charge:13.8-14.1V	recom.14.1V(-24mV/ °C)
Cycle charge:14.4-15.0V	recom.14.7V(-30mV/ °C)

Standards

Executive standard YD/T 3427-2018

Applications

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

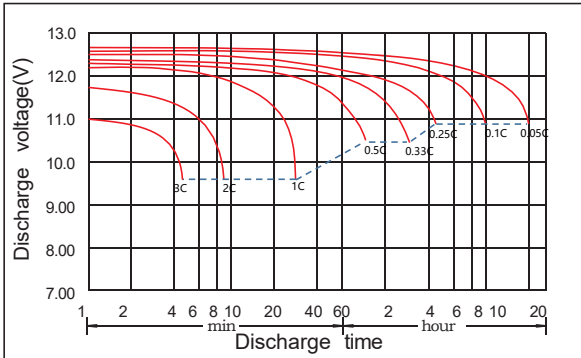
Rated Capacity

20Hour Rate (0.450A to 10.5V)	9.00Ah
3Hour Rate (2.37A to 10.2V)	7.11Ah
1Hour Rate (6.02A to 9.6V)	6.02Ah

Attain Certificate



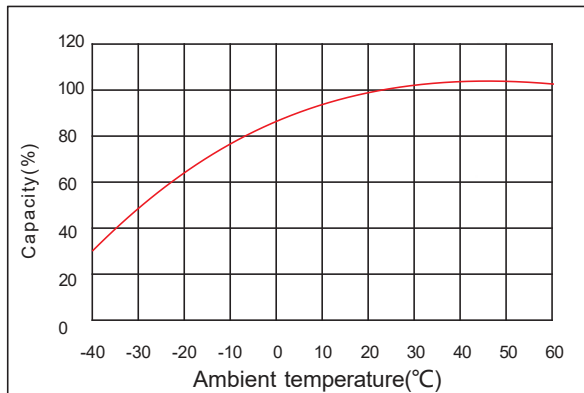
Discharge characteristic



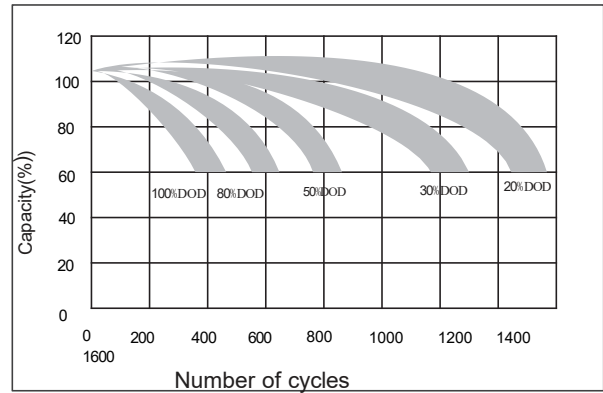
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	40.0	34.0	20.5	11.0	8.03	6.02	4.21	3.40	2.48	1.99	1.69	1.31	1.12	0.910	0.510
1.67V	35.1	30.0	19.5	10.9	7.65	5.95	4.19	3.27	2.41	1.93	1.66	1.29	1.10	0.890	0.490
1.70V	32.8	28.2	19.3	10.8	7.49	5.90	4.15	3.20	2.37	1.83	1.64	1.27	1.08	0.870	0.470
1.75V	29.3	25.6	19.1	10.6	7.24	5.85	4.12	3.12	2.33	1.80	1.57	1.24	1.05	0.850	0.450
1.80V	26.1	23.1	17.4	10.5	6.97	5.75	4.02	3.04	2.21	1.76	1.50	1.21	1.01	0.830	0.430
1.85V	23.0	20.8	15.8	9.88	6.35	5.67	3.94	2.60	1.89	1.51	1.28	1.04	0.880	0.708	0.380

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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	64.0	54.4	40.0	21.6	15.7	11.8	8.27	6.70	4.89	3.92	3.33	2.58	2.22	1.80	1.01
1.67V	58.6	50.1	38.0	21.4	15.0	11.7	8.25	6.44	4.75	3.80	3.27	2.54	2.18	1.76	0.970
1.70V	55.7	48.0	37.6	21.2	14.7	11.6	8.18	6.30	4.67	3.61	3.23	2.50	2.14	1.72	0.931
1.75V	51.3	44.8	37.2	20.8	14.2	11.5	8.12	6.15	4.59	3.55	3.09	2.44	2.08	1.68	0.891
1.80V	46.9	41.6	34.0	20.6	13.7	11.3	7.92	5.99	4.35	3.47	2.96	2.38	2.00	1.64	0.851
1.85V	42.5	38.4	31.0	19.5	12.5	11.2	7.80	5.15	3.74	2.99	2.53	2.06	1.75	1.41	0.760