

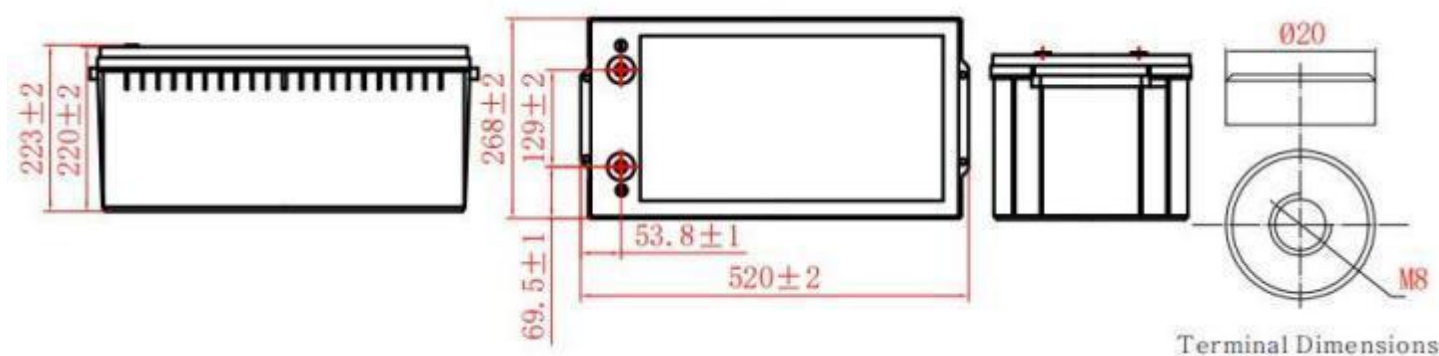
General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life



Dimension: 520(L) × 268(W) × 220(H) × 223(TH) / (±2mm)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	250Ah@10hour-rate to 1.80V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx 68.0kg±3% (149.91lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	3157A
Internal resistance(Full charged at 25°C:)	3.8 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(2 5 ° C)	
Charge current:	Max. 62.5A; Recom. 25A
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: IEC 60896-21/22, GB/T 19638.1-2014, YD/T 1360-2005

Applications

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

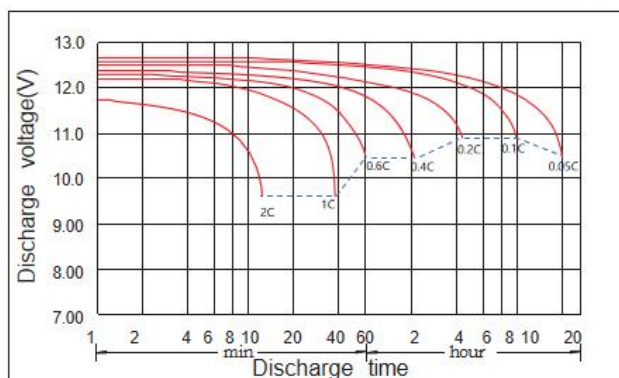
Rated Capacity

10Hour Rate (25.0A to 10.8V)	250.0Ah
3Hour Rate (66.5A to 10.2V)	199.5Ah
1Hour Rate (158.1A to 9.6V)	158.1Ah

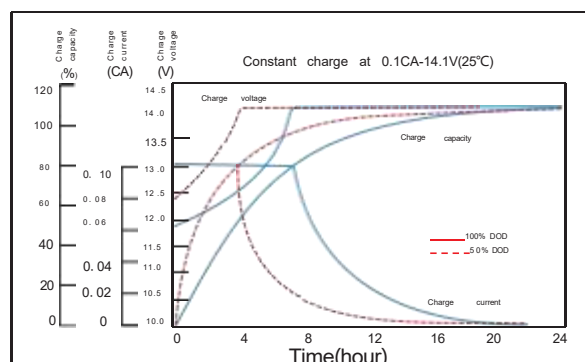
Attain Certificate



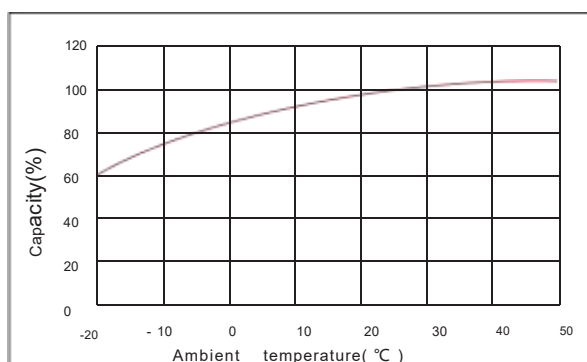
Discharge characteristic



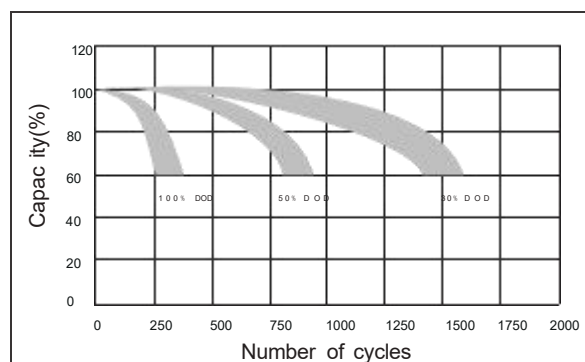
Charging characteristic



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	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	426.9	262.0	198.2	158.1	117.4	93.7	70.5	56.8	48.3	41.1	31.7	26.4	13.8
1.65V	410.1	251.6	190.3	151.9	113.9	91.6	68.3	55.0	47.1	40.5	31.3	26.1	13.6
1.70V	384.1	240.4	181.9	145.6	109.5	87.8	66.5	53.8	45.9	39.6	30.9	25.7	13.5
1.75V	357.4	227.5	173.8	141.0	104.9	84.7	64.5	52.4	44.7	38.6	30.4	25.3	13.4
1.80V	336.6	221.3	167.6	134.9	100.0	82.1	63.8	50.9	43.6	37.5	29.9	25.0	13.2
1.85V	279.3	187.3	146.3	118.6	90.4	72.6	56.0	46.1	39.6	34.2	28.1	23.1	12.7

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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	749.8	475.9	360.7	289.5	217.4	172.5	133.0	106.4	90.9	78.9	61.9	51.8	27.2
1.65V	727.5	461.7	349.1	281.3	211.9	169.5	131.1	103.9	88.9	78.2	61.3	51.3	26.8
1.70V	691.6	445.7	345.0	273.9	208.9	164.0	125.6	101.5	86.9	76.6	60.5	50.6	26.5
1.75V	652.9	430.4	330.7	268.1	203.1	159.7	124.8	99.2	85.0	74.8	59.8	50.0	26.4
1.80V	617.5	415.5	318.3	257.0	192.6	157.1	121.4	98.2	83.1	73.6	58.9	49.4	26.2
1.85V	514.5	361.5	282.8	229.6	178.9	143.7	109.0	90.3	77.7	67.3	55.4	46.6	24.7