

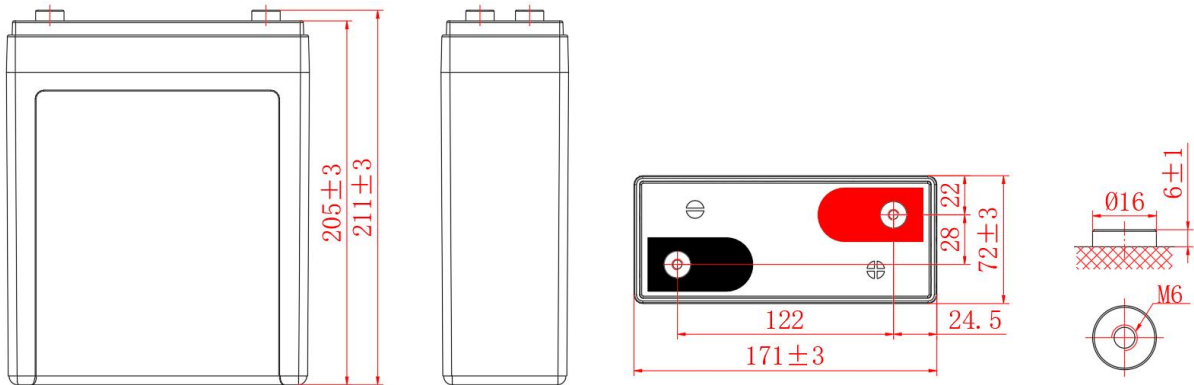
General Features

- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology
- ▶ Long life



Dimension: 171(L) × 72(W) × 205(H) × 211(TH)

Unit: mm



Specification	
Nominal Voltage	2V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 6.00kg (13.2lbs)
Container Material	ABS
short-circuit current	2000A
Internal resistance(Full charged at 25°C:)	1.0 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. 25.0A;Recom.10.0A
Float charge:2.23-2.27V	recom.2.25V(-3mV/ °C)
Equalize charge:2.30-2.35V	recom.2.35V(-4mV/ °C)
Cycle charge:2.40-2.50V	recom.2.40V(-5mV/ °C)

Standards

Executive standard YD/T 799-2010

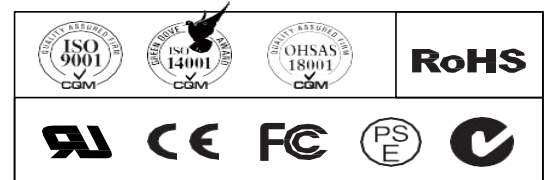
Applications

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

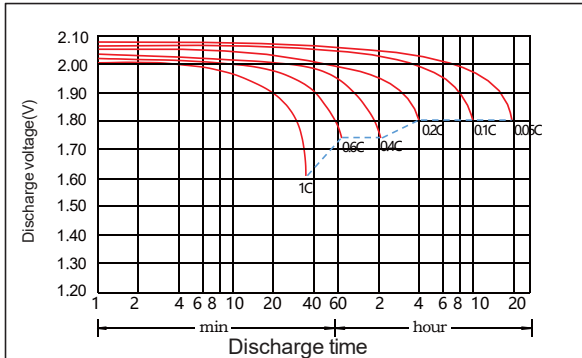
Rated Capacity

10Hour Rate (10.0A to 1.80V)	100Ah
3Hour Rate (25.0A to 1.80V)	75.0Ah
1Hour Rate (55.0A to 1.75V)	55.0Ah

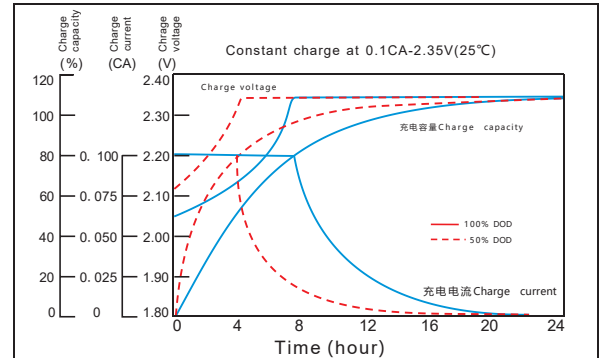
Attain Certificate



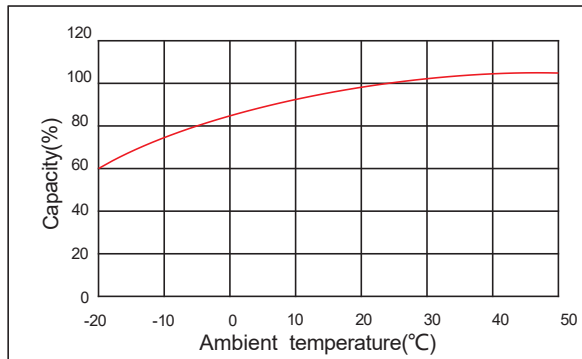
Discharge characteristic



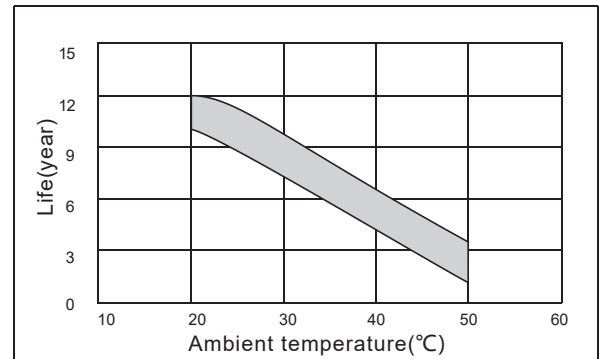
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float 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	177	150	125	81.7	69.7	57.7	44.3	39.3	28.1	21.1	19.4	15.6	13.2	10.8	5.56
1.65V	163	139	117	76.8	66.7	56.7	43.7	38.3	27.4	20.9	18.9	15.5	13.0	10.7	5.49
1.70V	151	129	108	71.9	63.7	55.5	43.0	37.0	26.6	20.6	18.8	15.2	12.8	10.6	5.43
1.75V	134	116	98.9	67.1	61.0	55.0	42.3	35.7	25.8	20.3	18.2	15.0	12.6	10.4	5.33
1.80V	115	102	92.2	62.7	58.3	53.7	41.0	33.7	25.0	19.5	17.8	14.4	12.4	10.0	5.14
1.85V	101	89.8	81.0	55.8	52.0	48.5	40.3	31.4	23.7	19.3	17.2	14.3	12.0	9.90	5.01

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	297	254	220	149	129	108	83.2	73.8	52.9	40.3	36.9	29.9	25.3	21.0	10.9
1.65V	271	235	208	140	123	107	82.0	72.0	51.5	39.8	36.3	29.5	24.9	20.8	10.8
1.70V	259	217	194	132	118	104	80.8	69.6	50.1	39.1	35.7	29.1	24.5	20.5	10.6
1.75V	234	196	181	123	113	103	79.4	67.2	48.5	38.3	34.6	28.6	24.3	20.2	10.5
1.80V	207	177	171	115	108	101	77.0	63.3	47.0	37.4	33.8	27.6	23.7	19.4	10.1
1.85V	181	157	151	103	97.3	91.5	76.0	59.0	44.6	36.3	32.7	27.2	23.1	19.3	10.0