

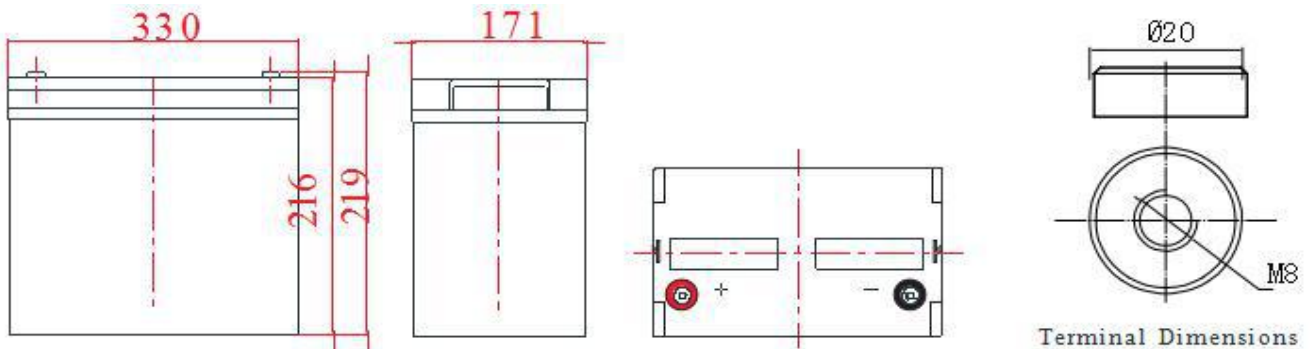
General Features

- ▶ 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: 330(L) × 171(W) × 216(H) × 219(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 29.5kg (65.0lbs)
Container Material	ABS
short-circuit current	2307A
Internal resistance(Full charged at 25°C:)	5.2 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. 25A;Recom.10A
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 799-2010

Applications

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

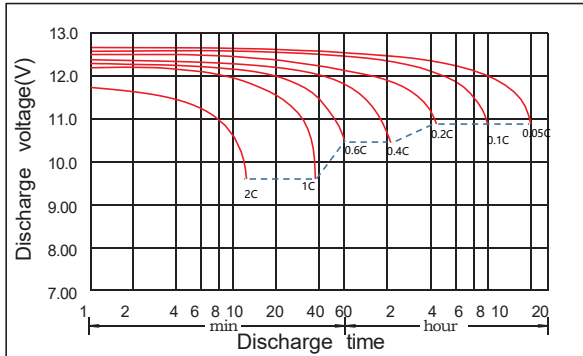
Rated Capacity

10Hour Rate (10.0A to 10.8V)	100Ah
3Hour Rate (27.3A to 10.2V)	81.9Ah
1Hour Rate (67.3A to 9.6V)	67.3Ah

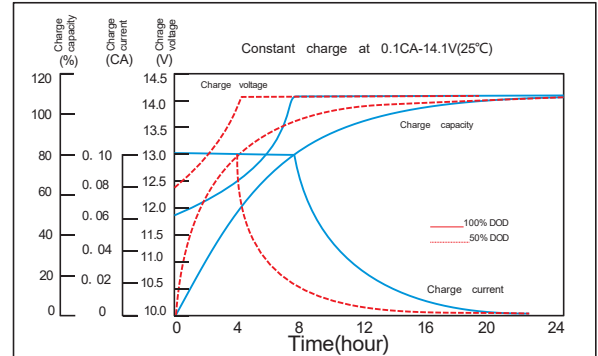
Attain Certificate



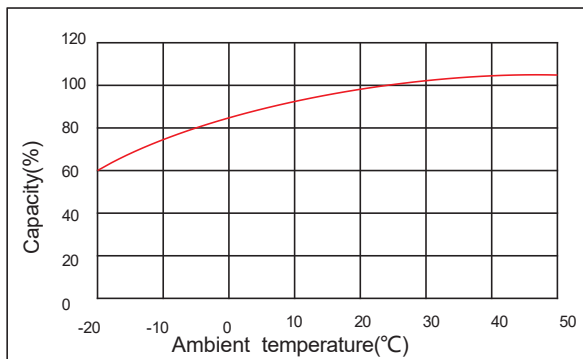
Discharge characteristic



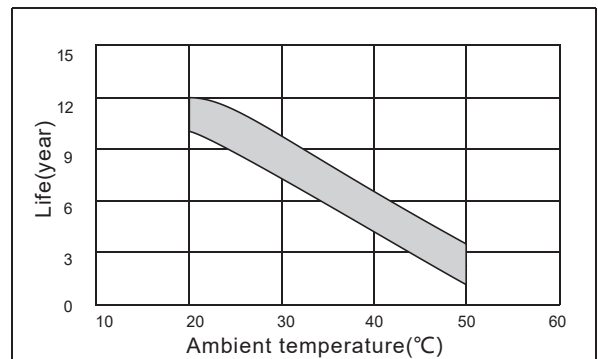
Charging characteristic



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	285	231	177	114	82.6	67.3	42.3	38.6	28.0	20.3	18.8	15.0	12.4	10.4	5.46
1.65V	277	224	172	112	82.1	66.9	41.9	38.4	27.7	20.1	18.6	14.8	12.3	10.3	5.43
1.70V	265	217	168	111	81.5	66.4	41.5	38.1	27.3	19.9	18.4	14.7	12.2	10.2	5.40
1.75V	244	204	163	110	80.3	65.5	41.1	37.5	27.0	19.7	18.2	14.6	12.1	10.1	5.38
1.80V	219	185	152	104	78.3	63.8	40.7	36.8	26.9	19.5	17.7	14.4	12.0	10.0	5.35
1.85V	195	165	135	95.5	72.5	59.1	39.4	35.0	25.3	18.9	16.9	14.0	11.5	9.70	5.26

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	478	391	312	207	152	127	84.4	73.0	53.3	40.0	35.7	29.3	24.0	20.0	10.9
1.65V	460	379	307	205	151	126	83.6	72.8	52.6	39.6	35.5	29.0	23.8	19.9	10.8
1.70V	457	366	303	205	150	125	82.7	72.5	52.3	39.2	35.2	28.7	23.7	19.6	10.8
1.75V	426	346	301	204	149	124	81.9	72.1	52.0	38.8	35.0	28.5	23.5	19.4	10.7
1.80V	392	320	284	200	148	123	81.0	71.9	51.8	38.4	34.6	28.2	23.3	19.2	10.6
1.85V	349	288	255	183	138	115	79.8	68.7	49.3	37.8	33.0	27.7	22.5	18.9	10.5