

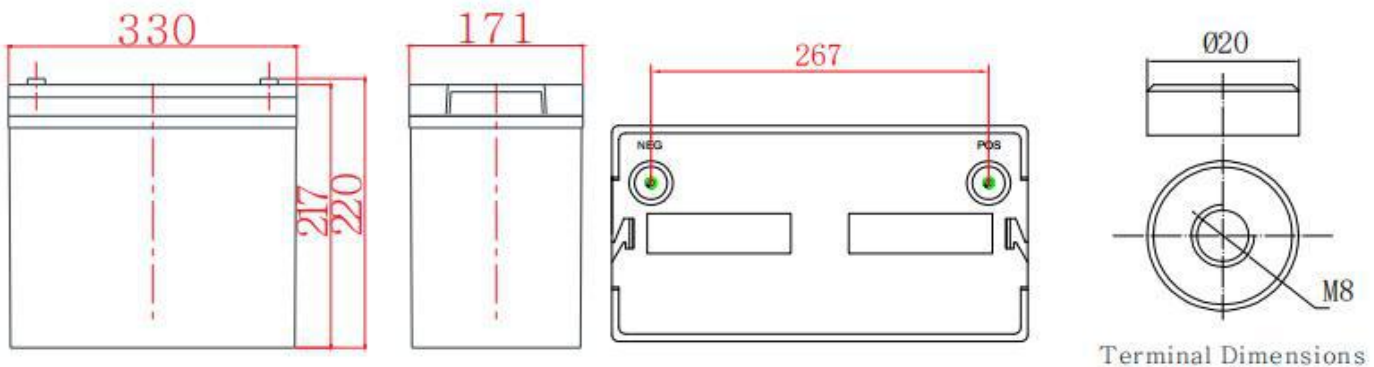
## General Features

- ▶ 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) × 217(H) × 220(TH)**

**Unit: mm**



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 26.5kg (58.4lbs)
Container Material	ABS
short-circuit current	2068A
Internal resistance(Full charged at 25°C: )	5.8 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(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

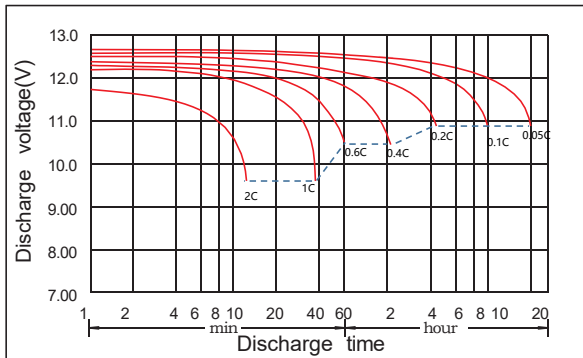
## Rated Capacity

20Hour Rate (5.00A to 10.5V)	100.0Ah
3Hour Rate (25.4A to 10.2V)	76.2Ah
1Hour Rate (62.3A to 9.6V)	62.3Ah

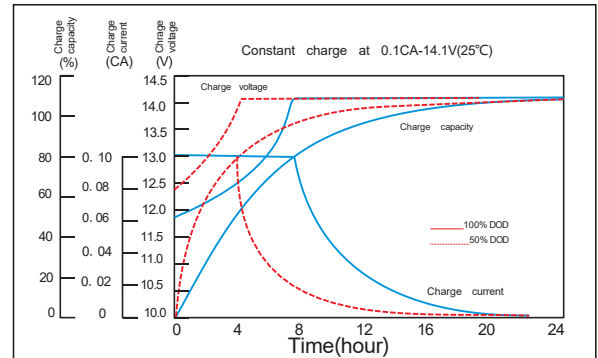
## Attain Certificate



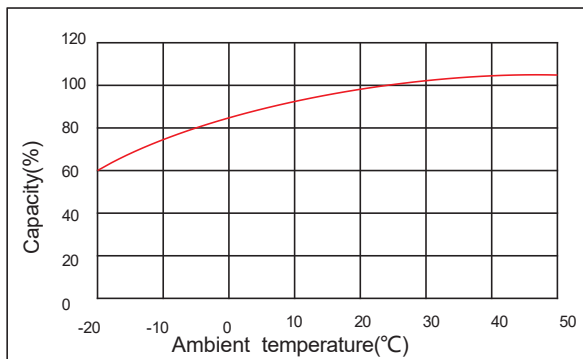
## Discharge characteristic



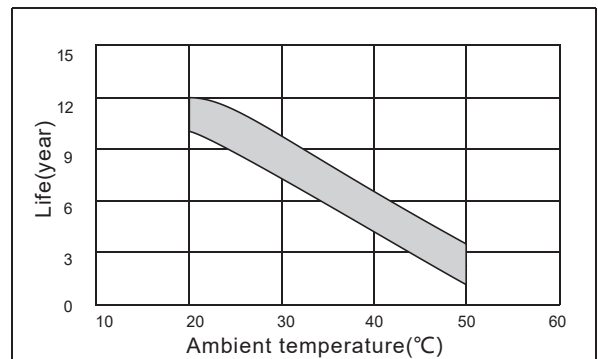
## Charging characteristic



## 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	256	208	159	93.1	77.0	62.3	39.5	35.9	26.1	18.9	17.5	14.0	11.5	9.70	5.07
1.65V	249	202	155	91.5	76.3	61.9	39.1	35.7	25.8	18.8	17.3	13.9	11.4	9.61	5.05
1.70V	239	195	152	89.8	75.7	61.5	38.7	35.4	25.4	18.6	17.1	13.7	11.3	9.52	5.02
1.75V	220	183	147	89.1	74.6	60.5	38.4	34.8	25.1	18.4	16.9	13.6	11.2	9.43	5.00
1.80V	197	167	137	85.0	72.6	59.0	37.6	34.2	25.0	18.0	16.5	13.3	11.1	9.24	4.97
1.85V	176	149	121	77.9	67.4	54.6	36.7	32.5	23.5	17.6	15.6	13.0	10.6	9.01	4.89

## 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	430	352	281	169	142	118	78.4	67.8	49.5	37.2	33.2	27.3	22.3	18.6	10.1
1.65V	414	341	276	167	140	117	77.6	67.7	48.9	36.8	33.0	27.0	22.1	18.4	10.0
1.70V	411	330	272	167	140	116	76.8	67.4	48.6	36.4	32.7	26.7	22.0	18.2	9.98
1.75V	384	311	271	166	139	115	76.1	67.0	48.3	36.0	32.5	26.4	21.8	18.0	9.89
1.80V	353	288	256	163	138	114	75.2	66.8	48.2	35.7	32.2	26.2	21.6	17.8	9.84
1.85V	315	259	229	149	128	105	74.1	63.8	45.7	35.1	30.7	25.8	20.9	17.6	9.80