

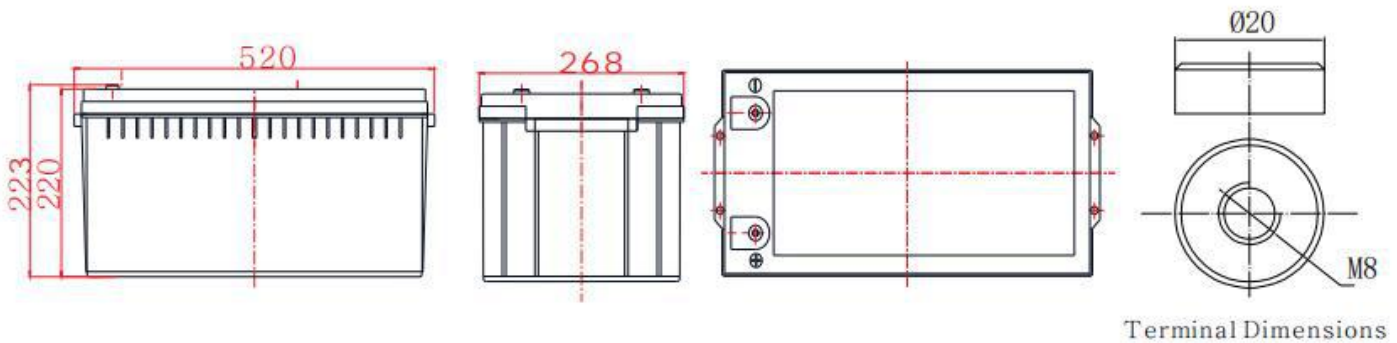
General Features

- ▶ 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: 520(L) × 268(W) × 220(H) × 223(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	220Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 64.0kg (141.1lbs)
Container Material	ABS
short-circuit current	2926A
Internal resistance(Full charged at 25°C:)	4.1 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. 55A; Recom. 22A
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

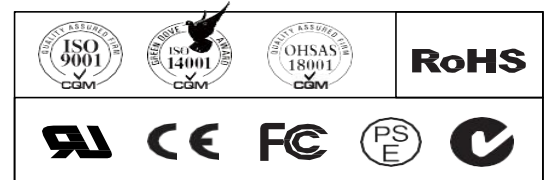
Applications

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

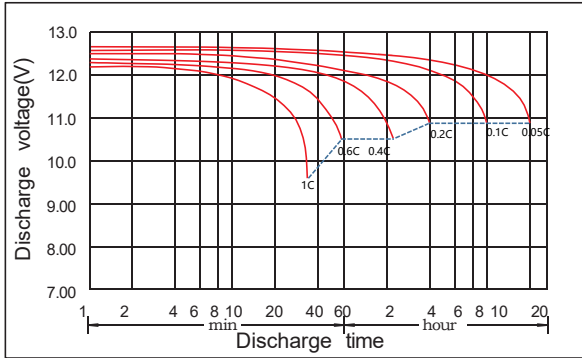
Rated Capacity

10Hour Rate (22.0A to 10.8V)	220.0Ah
3Hour Rate (60.2A to 10.2V)	180.6Ah
1Hour Rate (148A to 9.6V)	148.0Ah

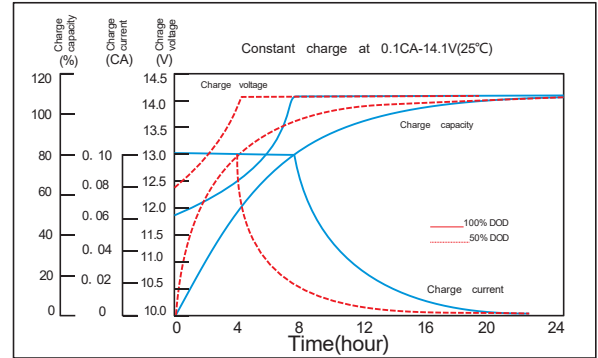
Attain Certificate



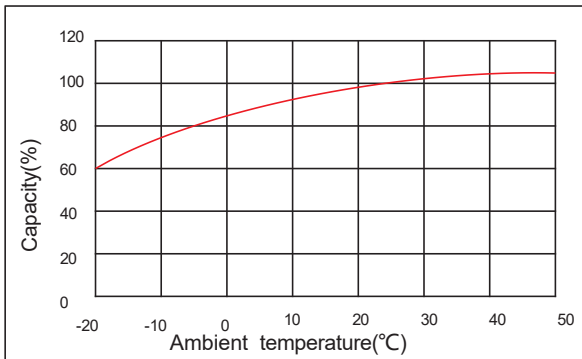
Discharge characteristic



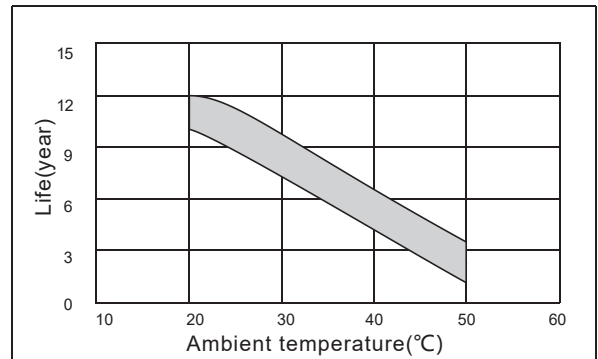
Charging characteristic



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	306	306	306	202	175	148	93.3	84.9	61.7	44.6	41.4	33.0	27.2	22.9	11.8
1.65V	301	301	301	199	173	147	92.4	84.5	61.0	44.3	41.0	32.7	26.9	22.7	11.6
1.70V	289	289	289	195	171	146	91.5	83.9	60.2	43.7	40.6	32.4	26.8	22.4	11.4
1.75V	266	266	266	194	169	144	90.6	82.5	59.5	43.4	40.1	32.1	26.5	22.3	11.3
1.80V	238	238	238	186	163	140	89.8	81.0	59.0	42.9	39.0	31.7	26.3	22.0	11.1
1.85V	212	212	212	169	150	130	86.9	77.0	55.6	41.7	37.0	30.8	25.3	21.4	10.8

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	520	520	520	397	343	291	184	167	122	87.9	81.5	65.0	53.8	45.3	23.3
1.65V	512	512	512	390	339	289	182	166	120	87.2	80.8	64.5	53.3	45.0	23.0
1.70V	491	491	491	383	335	287	180	165	119	86.2	79.9	63.8	53.0	44.4	22.7
1.75V	452	452	452	380	332	284	179	163	117	85.5	79.1	63.3	52.4	44.1	22.3
1.80V	404	404	404	364	319	276	177	160	116	84.6	76.8	62.4	52.1	43.6	22.0
1.85V	363	363	363	334	295	258	172	152	110	82.6	73.4	61.0	50.3	42.6	21.6