

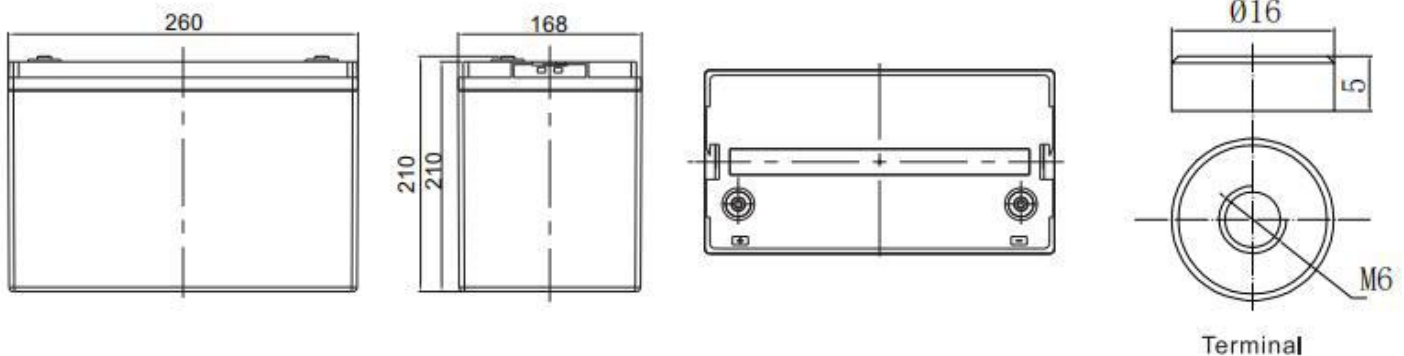
General Features

- ▶ 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: 260(L) × 168(W) × 210(H) × 210(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	85Ah(320W@15min-rate to 1.67V percell@25°C)
Design life	10 years
Terminal	M6
Approx. Weight	Approx 25.0kg (55.1lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	2553A
Internal resistance(Full charged at 25°C:)	4.7 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. 21.25A; Recom. 8.5A
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 3427-2018

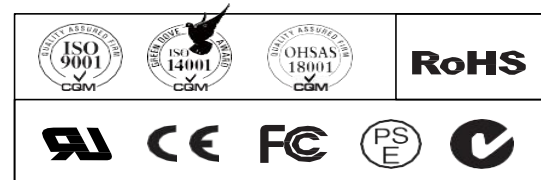
Applications

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

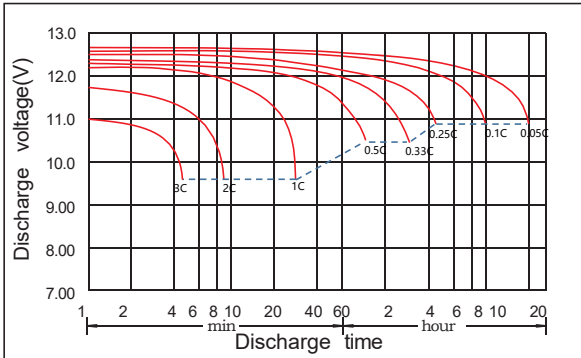
Rated Capacity

10Hour Rate (8.50A to 10.8V)	85.0Ah
3Hour Rate (23.3A to 10.2V)	69.9Ah
1Hour Rate (50.0A to 9.6V)	50.0Ah

Attain Certificate



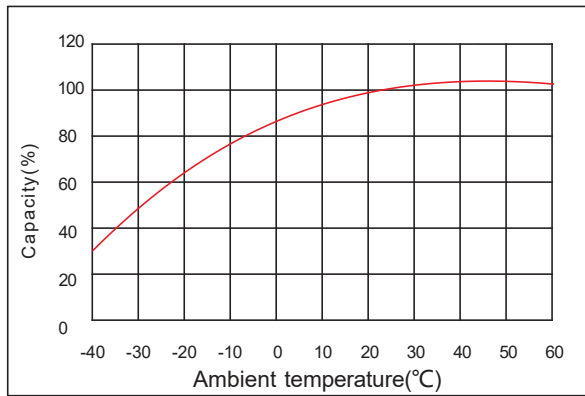
Discharge characteristic



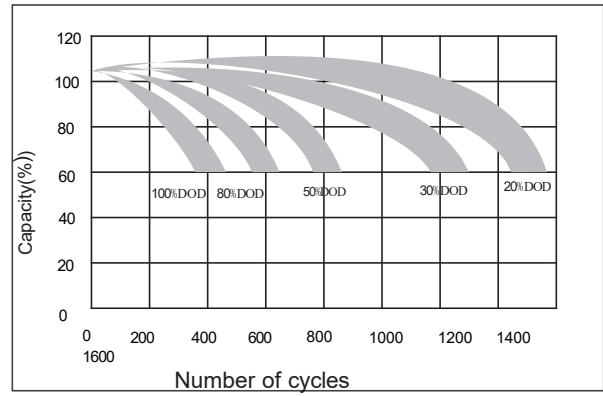
Charging characteristic



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	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	336	262	173	108	68.4	50.0	35.9	32.8	23.8	17.2	16.0	13.0	10.5	8.84	4.64
1.67V	295	231	164	102	67.7	47.7	35.6	32.6	23.6	17.1	15.8	12.9	10.4	8.76	4.61
1.70V	275	217	162	100	67.0	46.7	35.3	32.4	23.3	16.9	15.6	12.7	10.3	8.67	4.59
1.75V	246	197	161	96.0	66.4	45.1	34.9	31.9	23.0	16.8	15.5	12.6	10.2	8.59	4.57
1.80V	219	178	147	92.0	65.7	43.5	34.6	31.3	22.8	16.6	15.1	12.5	10.2	8.50	4.55
1.85V	193	160	133	81.0	63.8	39.3	33.6	29.8	21.5	16.1	14.3	12.1	9.74	8.25	4.47

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	537	418	337	210	131	93.8	71.4	62.1	45.3	33.2	30.3	24.9	20.4	17.0	9.18
1.67V	492	386	320	201	130	90.4	70.6	61.9	44.7	32.8	30.2	24.6	20.2	16.8	9.14
1.70V	468	369	317	197	129	89.0	70.1	61.6	44.5	32.6	29.9	24.5	20.2	16.7	9.10
1.75V	431	345	313	191	128	86.3	69.3	61.3	44.2	32.2	29.8	24.2	20.0	16.5	9.05
1.80V	394	320	286	184	127	83.6	68.9	61.1	44.1	32.0	29.4	24.1	19.9	16.4	9.01
1.85V	357	295	261	165	124	76.0	67.2	58.4	41.9	31.2	28.1	23.5	19.1	16.0	8.93