

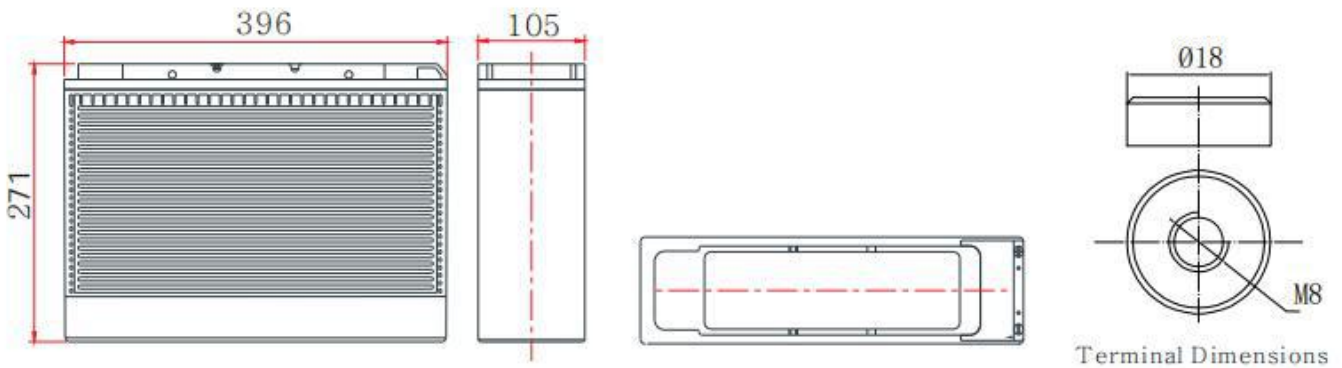
General Features

- ▶ Narrow structure and front terminal design, suitable for 19-inch and 23-inch standard cabinets
- ▶ 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: 396(L) × 105(W) × 271(H) × 271(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	90Ah
Design life	12 years
Terminal	M8
Approx. Weight	Approx. 27.5kg (60.6lbs)
Container Material	ABS
short-circuit current	2000A
Internal resistance(Full charged at 25°C:)	6.0 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. 22.5A; Recom. 9.0A
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

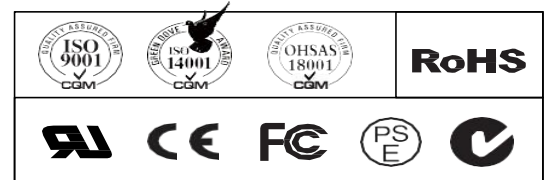
Applications

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

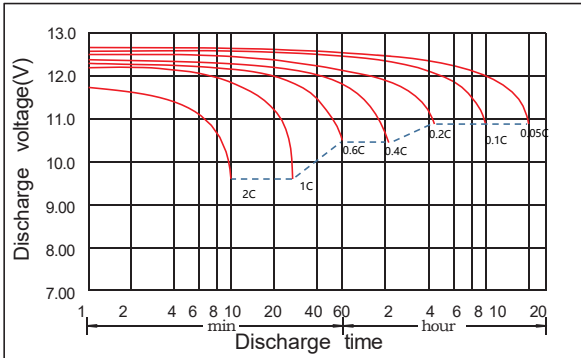
Rated Capacity

10Hour Rate (9.00A to 10.8V)	90.0Ah
3Hour Rate (23.3A to 10.2V)	69.9Ah
1Hour Rate (57.3A to 9.6V)	57.3Ah

Attain Certificate



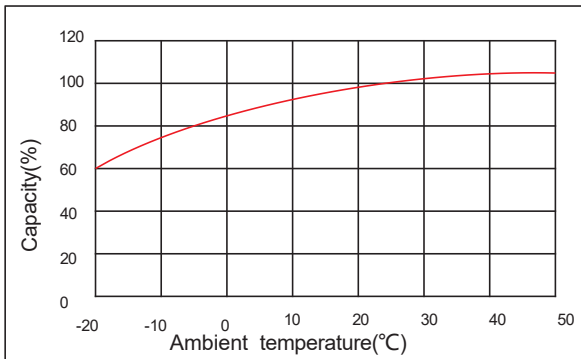
Discharge characteristic



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	211	178	148	90.0	70.6	57.3	36.0	32.9	23.9	17.3	16.1	12.8	10.5	9.38	4.91
1.65V	205	177	144	88.6	69.6	56.4	35.6	32.7	23.6	17.1	15.9	12.6	10.4	9.28	4.81
1.70V	197	175	142	86.7	68.7	55.4	35.4	32.5	23.3	17.0	15.7	12.6	10.3	9.19	4.71
1.75V	181	173	137	85.7	67.7	54.5	35.1	32.0	23.1	16.8	15.5	12.4	10.2	9.09	4.61
1.80V	162	169	127	81.9	66.8	53.5	34.7	31.4	22.9	16.6	15.1	12.3	10.1	9.00	4.50
1.85V	144	156	113	75.3	61.6	50.2	33.7	29.8	21.6	16.2	14.4	11.9	9.76	8.72	4.40

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	354	301	261	163	130	109	70.2	63.9	45.5	33.4	30.4	24.8	20.5	18.0	9.53
1.65V	340	298	258	162	129	108	69.5	63.5	44.9	33.0	30.3	24.5	20.3	17.9	9.33
1.70V	338	296	254	161	128	107	69.1	63.0	44.6	32.8	30.0	24.4	20.2	17.6	9.13
1.75V	315	294	253	160	127	105	68.2	62.1	44.4	32.5	29.8	24.1	20.0	17.5	8.95
1.80V	290	291	239	157	126	103	67.6	61.1	44.2	32.3	29.5	23.9	19.9	17.3	8.78
1.85V	259	272	214	144	117	97.6	66.3	58.5	42.0	31.7	28.1	23.4	19.2	17.0	8.57