

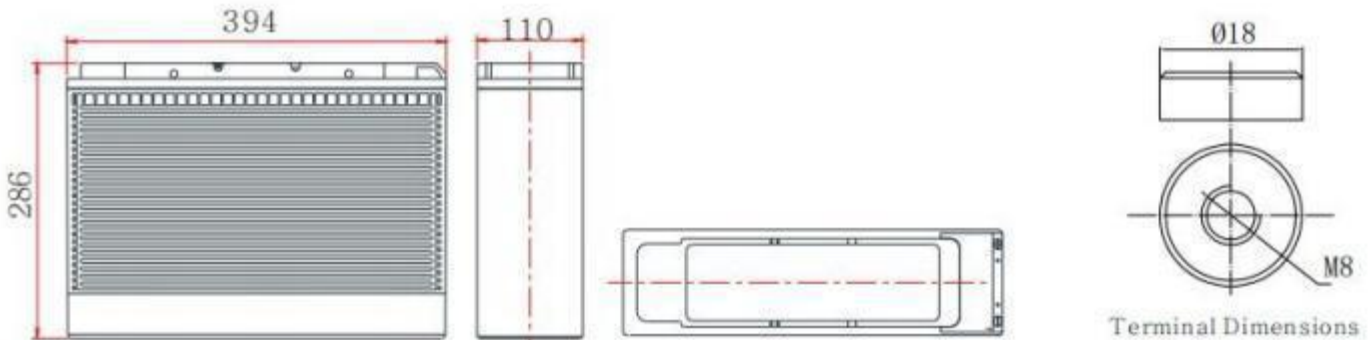
General Features

- ▶ 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: 394(L) × 110(W) × 286(H) × 286(TH) / (±2)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah@10hour-rate to 1.80V per cell @25°C
Design life	12 years
Terminal	M8
Approx. Weight	Approx. 32.0kg±3% (70.55lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1714A
Internal resistance(Full charged at 25°C:)	7.0 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. 25A;Recom.10.0A
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: IEC 60896-21/22, GB/T 19638.1-2014

Applications

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

Rated Capacity

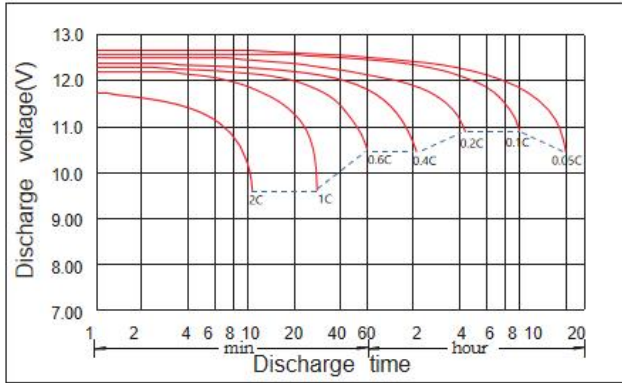
20Hour Rate (5.5A to 10.5V)	110.0Ah
3Hour Rate (26.6A to 10.2V)	79.8Ah
1Hour Rate (63.2A to 9.6V)	63.2Ah

Attain Certificate

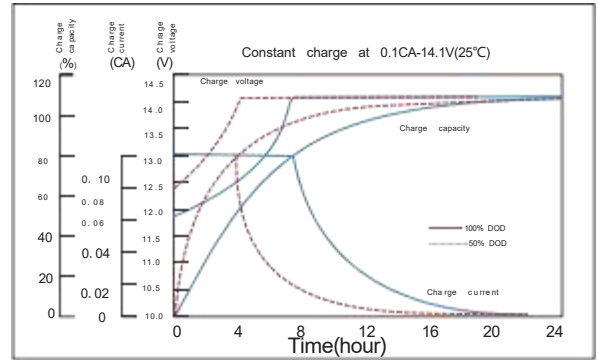


Front Terminal Battery FA12-110

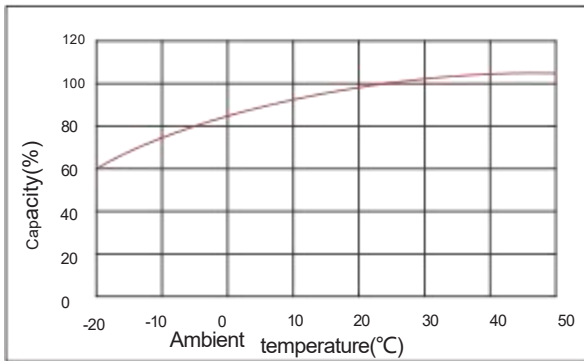
Discharging characteristic



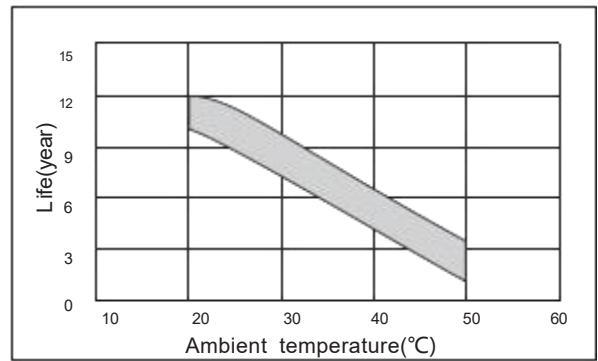
Charging characteristic



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	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	179.9	107.9	80.2	63.2	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.5	5.61
1.65V	172.8	103.6	77.0	60.8	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.4	5.59
1.70V	161.9	99.0	73.6	58.2	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.3	5.53
1.75V	150.6	93.7	70.3	56.4	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.1	5.50
1.80V	141.9	91.1	67.8	54.0	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.0	5.45
1.85V	117.7	77.1	59.2	47.4	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.22	5.42

Constant Power Discharge Characteristics Unit: W/cell (25°C,77°F)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	316.0	195.9	145.9	115.8	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.7	10.9
1.65V	306.6	190.1	141.2	112.5	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.5	10.7
1.70V	291.5	183.5	139.5	109.6	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.2	10.6
1.75V	275.2	177.2	133.8	107.2	81.2	63.9	49.9	39.7	34.0	29.9	23.9	20.0	10.6
1.80V	260.3	171.1	128.7	102.8	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.8	10.5
1.85V	216.9	148.8	114.4	91.9	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.6	9.87