

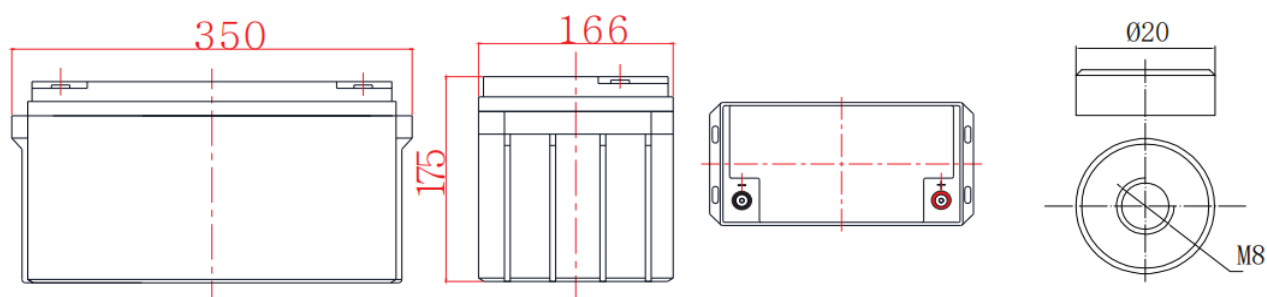
General Features

- ▶ 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: 350(L) × 166(W) × 175(H) × 175(TH) / (±3)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	78Ah@20hour-rate to 1.75V per cell @25°C
Design life	10 years
Terminal	M8
Approx. Weight	Approx 22.8kg ± 3% (50.3 ± 3% lbs)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1967A
Internal resistance(Full charged at 25°C:)	6.1 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. 19.5A; Recom. 7.8A
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
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

Rated Capacity

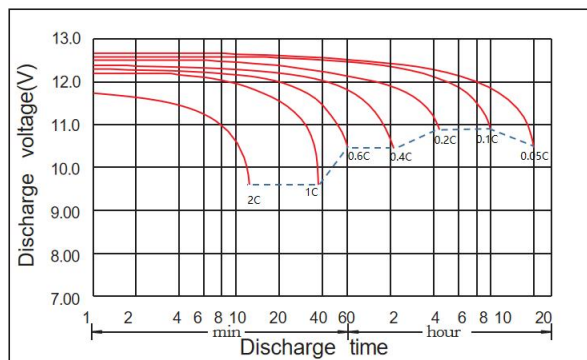
20Hour Rate (3.90A to 10.5V)	78.0Ah
3Hour Rate (19.4A to 10.2V)	58.2Ah
1Hour Rate (46.1A to 9.6V)	46.1Ah

Attain Certificate

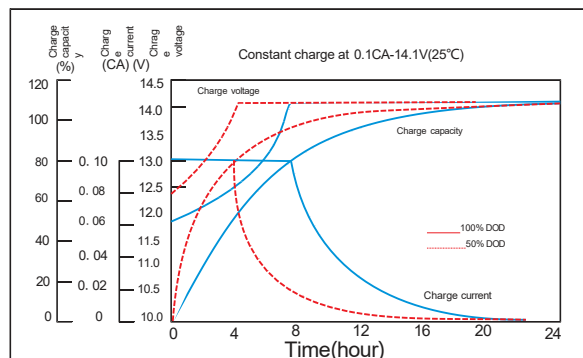
  	RoHS
    	

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

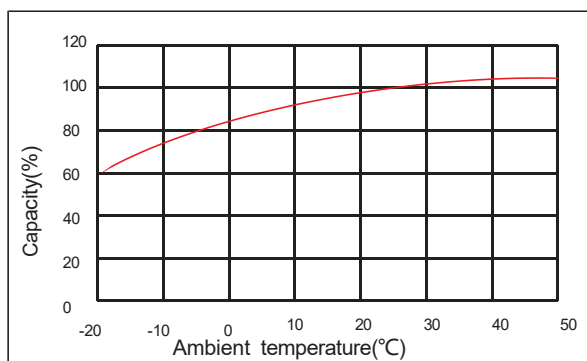
Discharge characteristic



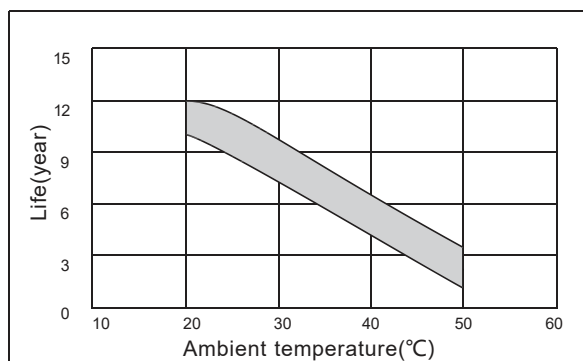
Charging characteristic



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	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	134.5	79.8	58.4	46.1	34.2	27.3	20.6	16.6	14.1	12.0	9.24	7.69	4.02
1.65V	129.2	76.6	56.1	44.3	33.2	26.7	19.9	16.0	13.7	11.8	9.14	7.59	3.96
1.70V	121.0	73.2	53.6	42.4	31.9	25.6	19.4	15.7	13.4	11.6	8.99	7.48	3.92
1.75V	112.6	69.3	51.2	41.1	30.6	24.7	18.8	15.3	13.0	11.3	8.87	7.38	3.90
1.80V	106.0	67.4	49.4	39.3	29.1	23.9	18.6	14.8	12.7	10.9	8.72	7.29	3.86
1.85V	88.0	57.0	43.1	34.6	26.3	21.2	16.3	13.4	11.6	9.97	8.19	6.72	3.70

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	236.2	144.9	106.3	84.4	63.4	50.3	38.8	31.0	26.5	23.0	18.0	15.1	7.92
1.65V	229.1	140.6	102.9	82.0	61.8	49.4	38.2	30.3	25.9	22.8	17.9	14.9	7.80
1.70V	217.8	135.7	101.7	79.8	60.9	47.8	36.6	29.6	25.3	22.3	17.6	14.7	7.72
1.75V	205.7	131.1	97.5	78.1	59.2	46.5	36.4	28.9	24.8	21.8	17.4	14.6	7.69
1.80V	194.5	126.5	93.8	74.9	56.1	45.8	35.4	28.6	24.2	21.4	17.2	14.4	7.64
1.85V	162.1	110.1	83.3	66.9	52.1	41.9	31.8	26.3	22.7	19.61	16.2	13.6	7.20