

JH12-48W



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	14Ah (48W@15min-rate to 1.67V per cell @25℃)
Design life	8 years
Terminal	F250
Approx. Weight	Approx 3.98kg (8.77lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
Rated Capacity	14.0Ah 20Hour Rate (0.700A to 10.5V)
	13.2Ah 10Hour Rate (1.32A to 10.5V)
	7.80Ah 1Hour Rate (7.80A to 10.5V)
Internal resistance	Full charged at 25℃: 14.5 mΩ
Max. Discharge Current	180A(5S)
Operating Temperature	Discharge: -20 ~50℃ (-4 ~ 122°F)
	Charge: -20 ~50℃ (-4 ~ 122°F)
	Storage: -20 ~50℃ (-4 ~ 122°F)

Charge current: Max. 3.5A ; Recom.1.5A

Charge Method
(25℃)

Float Charge:13.5-13.8V,recom.13.8V(-18mV/℃)

Equalize charge:13.8-14.1V,recom.14.1V(-24mV/℃) Cycle

charge:14.4-15.0V,recom.14.7V(-30mV/℃)

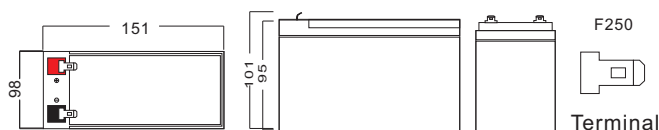
Self discharge 3% of capacity declined per month at 25℃

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: 151(L)×98(W)×95(H)×101(TH) Unit: mm



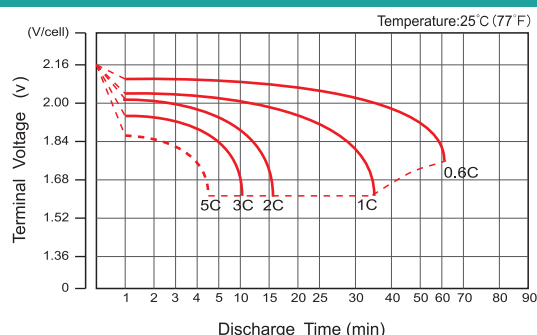
Constant Current Discharge Characteristics Unit: A (25℃, 77°F)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	57.6	50.7	40.5	36.0	29.1	20.5	14.7	8.2	6.6
1.67V	53.8	47.3	38.3	33.9	28.0	19.3	14.2	8.1	6.3
1.70V	49.4	45.9	37.4	32.8	27.2	18.8	13.9	7.9	6.2
1.75V	46.3	44.3	36.0	31.3	26.2	17.9	13.4	7.8	6.1
1.80V	43.1	42.4	34.6	29.4	25.4	17.3	12.9	7.6	6.0
1.85V	41.4	39.6	31.8	27.7	24.0	16.7	12.4	7.3	5.8

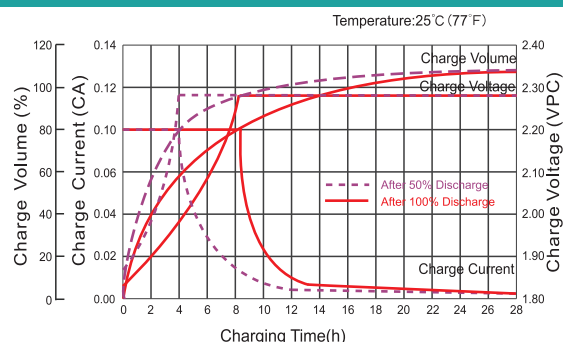
Constant Power Discharge Characteristics Unit: W/cell (25℃, 77°F)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	101.5	86.7	67.0	59.8	49.4	37.7	27.4	15.4	12.2
1.67V	91.2	80.3	64.4	57.2	48.0	35.9	26.6	15.0	11.9
1.70V	87.8	76.0	62.6	55.7	47.1	35.2	26.2	14.9	11.8
1.75V	81.3	74.2	61.3	53.7	45.7	33.9	25.6	14.8	11.7
1.80V	74.6	71.7	58.8	51.2	44.4	32.9	24.7	14.6	11.6
1.85V	63.3	69.1	55.7	48.9	42.9	32.1	24.0	14.3	11.3

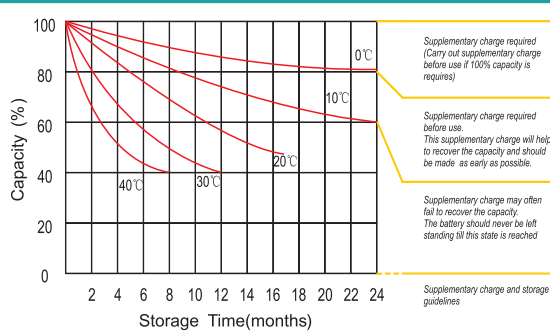
Discharge Characteristics Curve



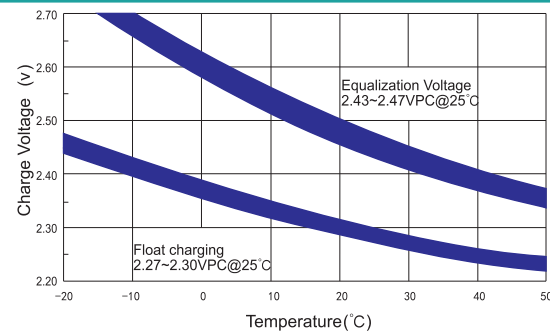
Charge Characteristic Curve For Standby Use



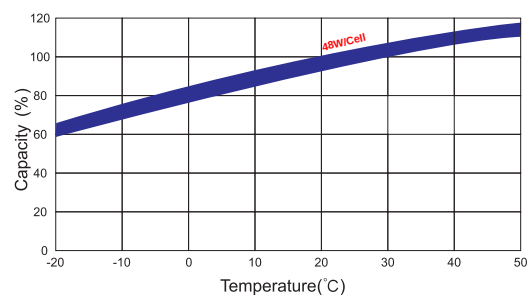
Storage Characteristics



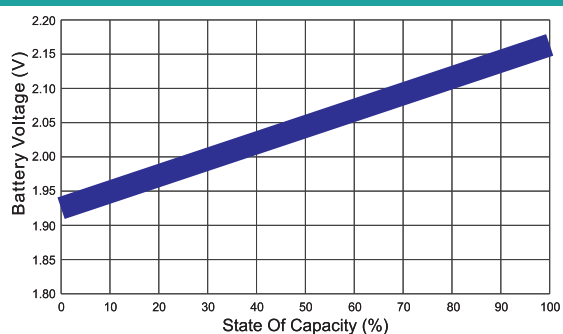
Relationship Between Charging Voltage And Temperature



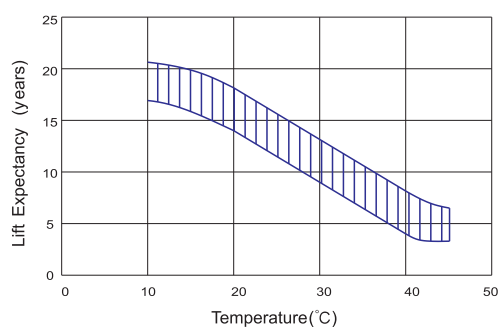
Temperature Effects On Capacity



Relationship of OCV And State of Charge (20°C)



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

