

JH12-320W

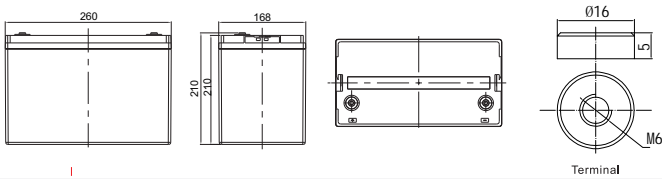


General Features

- 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



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	85Ah (320W@15min-rate to 1.67V per cell @25°C)
Design life	10years
Terminal	M6
Approx. Weight	Approx 25.0kg (55.1lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
Rated Capacity	85.0Ah 10Hour Rate (8.50A to 10.8V)
	69.9Ah 3Hour Rate (23.3A to 10.2V)
	50.0Ah 1Hour Rate (50.0A to 9.6V)
Internal resistance	Full charged at 25°C: 4.50 mΩ
Max. Discharge Current	850A(5S) Discharge: -20 ~50°C (-4 ~ 122°F)
Operating Temperature	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
	Charge current: Max. 21.25A ; Recom.8.5A
Charge Method (25 °C)	Float Charge:13.7-13.9V,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)
Self discharge	3% of capacity declined per month at 25°C

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

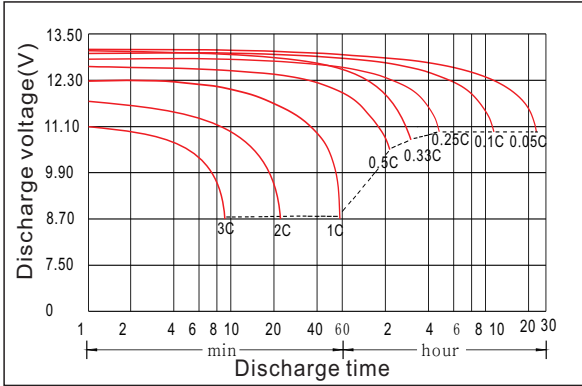
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	396	229	177	108	68.4	50.0	35.9	32.8	23.8	17.2	16.0	13.0	10.5	8.84	4.64
1.67V	380	211	165	102	67.7	47.7	35.6	32.6	23.6	17.1	15.8	12.9	10.4	8.76	4.61
1.70V	369	204	160	100	67.0	46.7	35.3	32.4	23.3	16.9	15.6	12.7	10.3	8.67	4.59
1.75V	339	190	152	96	66.4	45.1	34.9	31.9	23.0	16.8	15.5	12.6	10.2	8.59	4.57
1.80V	303	178	143	92	65.7	43.5	34.6	31.3	22.8	16.6	15.1	12.5	10.2	8.50	4.55
1.85V	277	151	123	81	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)

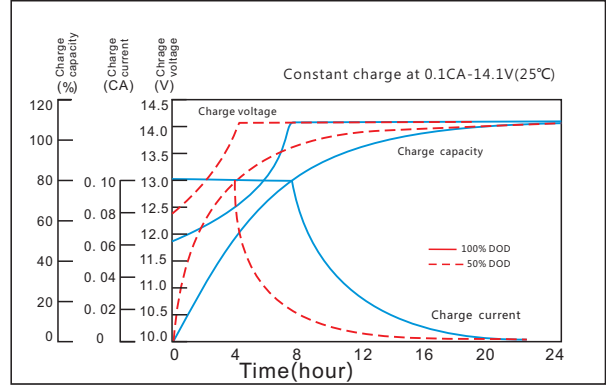
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	643	430	338	210	131	93.8	71.4	62.1	45.3	33.2	30.3	24.9	20.4	17.0	9.18
1.67V	618	405	320	201	130	90.4	70.6	61.9	44.7	32.8	30.2	24.6	20.2	16.8	9.14
1.70V	616	394	312	197	129	89.0	70.1	61.6	44.5	32.6	29.9	24.5	20.2	16.7	9.10
1.75V	574	374	299	191	128	86.3	69.3	61.3	44.2	32.2	29.8	24.2	20.0	16.5	9.05
1.80V	527	354	285	184	127	83.6	68.9	61.1	44.1	32.0	29.4	24.1	19.9	16.4	9.01
1.85V	487	304	248	165	124	76.0	67.2	58.4	41.9	31.2	28.1	23.5	19.1	16.0	8.93

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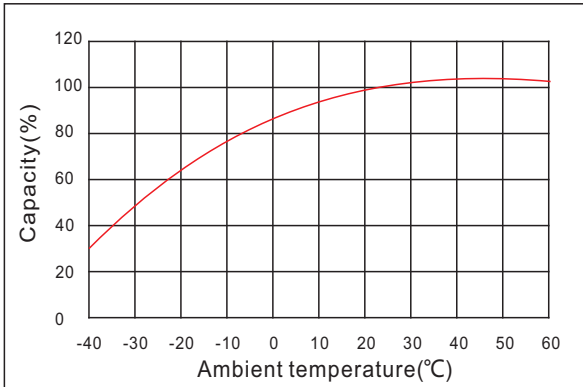
Discharge characteristic



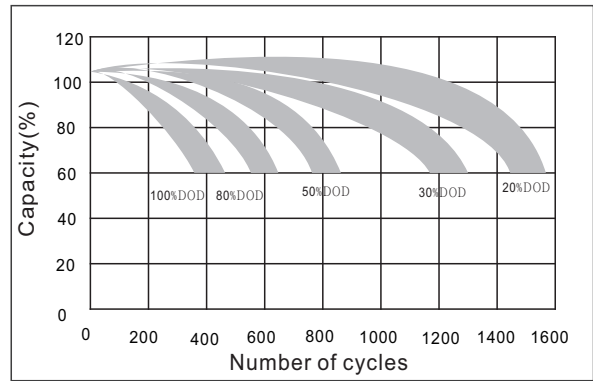
Charging characteristic



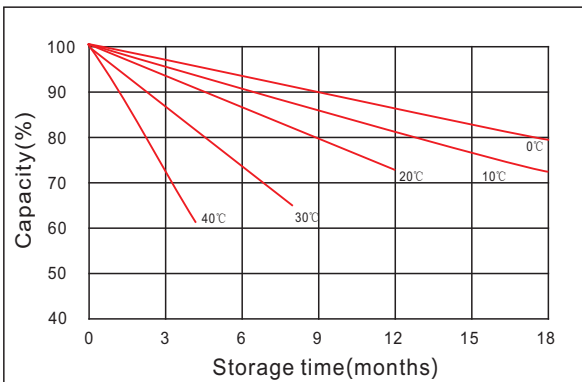
The effect of temperature on capacity



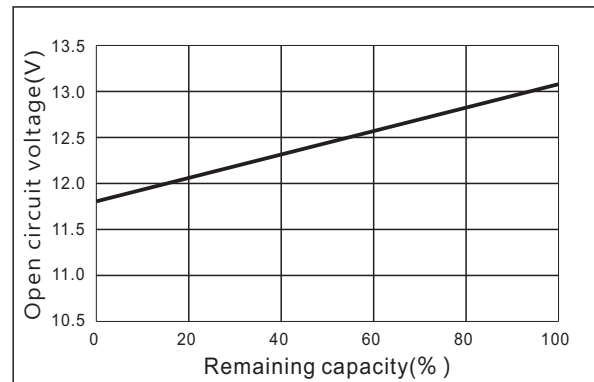
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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