京九电源
KIJO BATTERY

JH12-48W

JH Series High-Rate battery

Executive standard YD/T 3427-2018

Applications

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

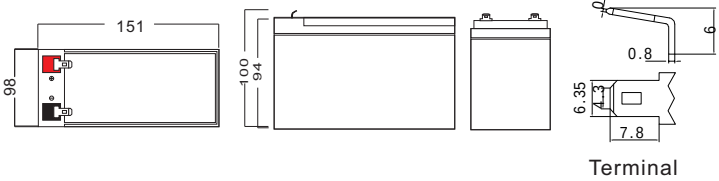
General Features

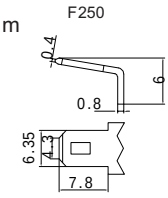
- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life

Specification

Nominal Voltage	12V
Nominal Capacity	14Ah (48W@15min-rate to 1.67V per cell @25℃)
Design life	5 years
Terminal	F250
Approx. Weight	Approx 3.95kg (8.71bs)
Container Material	ABS （UL94-HB, UL94-V0 Optional)
Rated Capacity	14.0Ah 20Hour Rate (0.700A to 10.5V) 11.0Ah 3Hour Rate (3.68A to 10.2V) 8.20Ah 1Hour Rate (8.20A to 9.6V)
Internal resistance	Full charged at 25°C: 18 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 Method (25 °C)	Charge current: Max. 3.5A ; Recom.1.5A 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)
Self discharge	3% of capacity declined per month at 25°C

Dimension: 151(L)×98(W) ×94(H)×100(TH) Unit: mm





Terminal

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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	55.0	42.0	29.1	14.7	10.0	8.20	6.60	5.29	3.86	3.09	2.63	2.04	1.74	1.39	0.742
1.67V	50.0	37.1	28.0	14.2	9.86	8.10	6.30	5.08	3.75	3.00	2.58	2.01	1.71	1.37	0.728
1.70V	46.7	34.9	27.2	13.9	9.65	7.90	6.20	4.98	3.68	2.84	2.55	1.97	1.68	1.34	0.714
1.75V	41.8	31.6	26.2	13.4	9.50	7.80	6.10	4.86	3.63	2.80	2.44	1.94	1.64	1.32	0.700
1.80V	37.1	28.5	25.4	12.9	9.29	7.60	6.00	4.73	3.43	2.74	2.34	1.89	1.60	1.29	0.672
1.85V	32.7	25.6	24.0	12.4	8.98	7.30	5.80	4.57	3.32	2.65	2.26	1.83	1.55	1.25	0.650

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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	88.0	67.2	49.4	27.4	19.4	15.4	12.2	9.92	7.30	5.86	4.97	3.95	3.28	2.69	1.47
1.67V	83.5	61.9	48.0	26.6	18.9	15.0	11.9	9.54	7.09	5.67	4.88	3.86	3.23	2.63	1.43
1.70V	79.3	59.3	47.1	26.2	18.8	14.9	11.8	9.36	6.98	5.39	4.74	3.83	3.19	2.61	1.42
1.75V	73.1	55.3	45.7	25.6	18.4	14.8	11.7	9.15	6.88	5.32	4.64	3.74	3.06	2.55	1.39
1.80V	66.8	51.4	44.4	24.7	18.0	14.6	11.6	9.08	6.70	5.27	4.53	3.67	2.96	2.50	1.38
1.85V	60.5	47.4	42.9	24.0	17.4	14.3	11.3	8.78	6.48	5.09	4.38	3.54	2.86	2.42	1.33

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.

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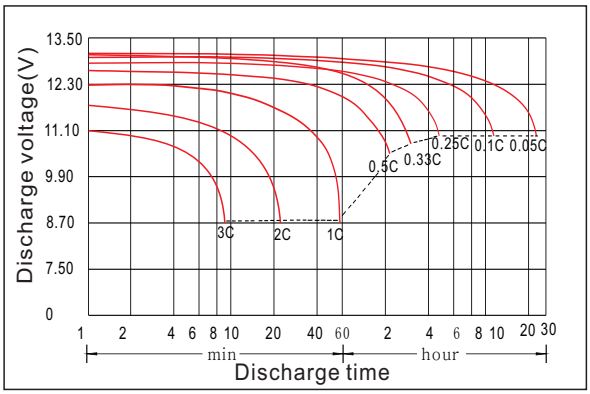
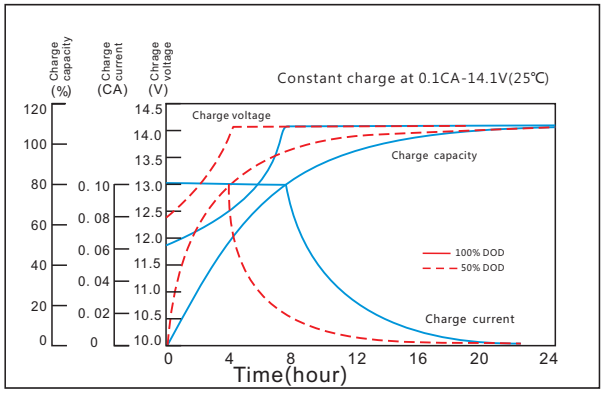
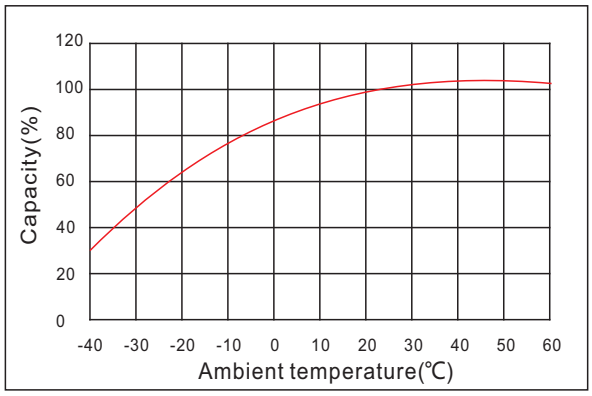
Discharge characteristic



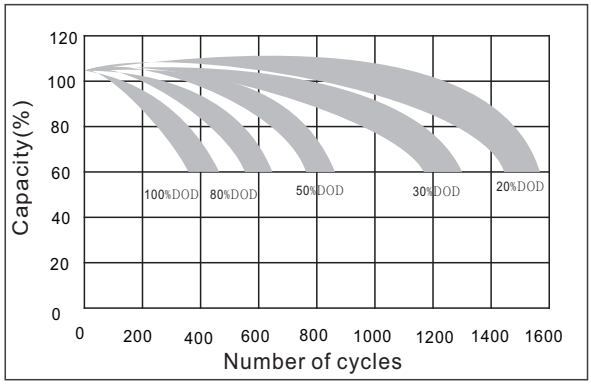
Charging characteristic



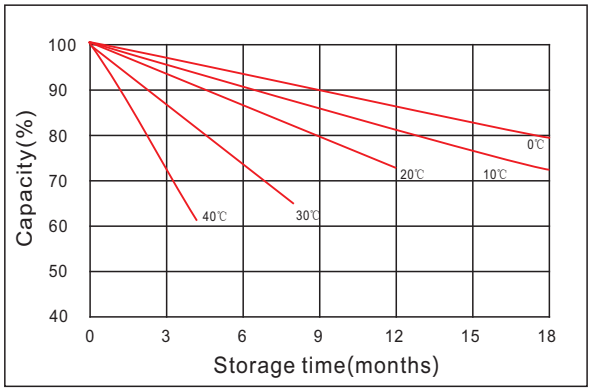
The effect of temperature on capacity



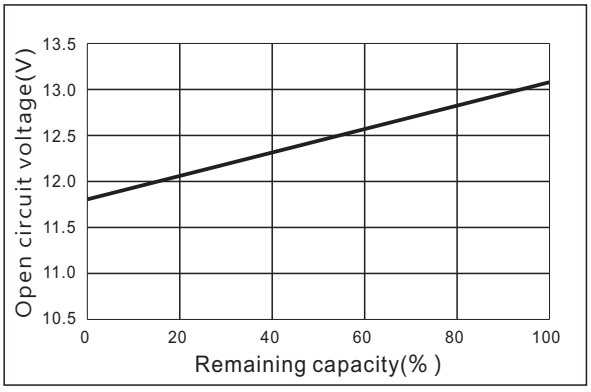
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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