京九电源
KIJO BATTERY

JM Series lead-acid battery

Executive standard GB/T 19639.1-2014

JM12-38

Applications

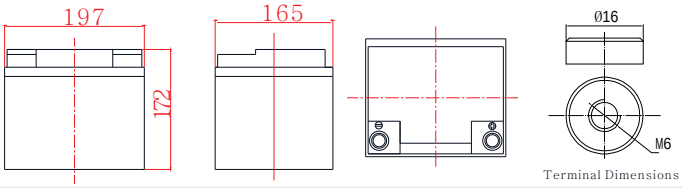
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

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

RoHS

Dimension: 197(L)×165(W) ×172(H)×172(TH) Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V		
Nominal Capacity	38Ah		
Design life	10 years		
Terminal	M6		
Approx. Weight	Approx 12.8kg (28.2lbs)		
Rated Capacity	38.0Ah	10Hour Rate	(3.80A to 10.8V)
	31.2Ah	3Hour Rate	(10.4A to 10.2V)
	25.6Ah	1Hour Rate	(25.6A to 9.6V)
Internal resistance	Full charged at 25°C:		9.3 mΩ
Max. Discharge Current	456A(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. 9.5A ; Recom.3.8A	
	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)		
Self discharge	3% of capacity declined per month at 25°C		

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	134	89.1	71.9	43.8	31.4	25.6	16.1	14.7	10.7	7.70	7.15	5.69	4.69	3.95	2.07
1.65V	130	88.4	69.8	43.0	31.2	25.4	15.9	14.6	10.5	7.62	7.08	5.64	4.66	3.91	2.06
1.70V	125	87.7	68.3	42.3	30.9	25.2	15.8	14.5	10.4	7.57	7.00	5.59	4.62	3.88	2.05
1.75V	115	86.7	66.0	41.9	30.5	24.9	15.6	14.3	10.3	7.49	6.93	5.54	4.58	3.84	2.04
1.80V	103	84.2	61.6	40.1	29.7	24.2	15.5	14.0	10.2	7.41	6.74	5.48	4.54	3.80	2.03
1.85V	91.6	78.3	54.9	36.6	27.6	22.5	15.0	13.3	9.61	7.20	6.41	5.32	4.36	3.69	2.00

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	224	151	127	79.2	58.1	48.4	32.1	27.7	20.3	15.2	13.6	11.1	9.12	7.60	4.10
1.65V	216	150	124	78.4	57.6	48.0	31.7	27.7	20.0	15.0	13.5	11.0	9.05	7.52	4.09
1.70V	215	149	123	78.4	57.1	47.6	31.4	27.6	19.9	14.9	13.4	10.9	9.01	7.45	4.07
1.75V	200	148	122	78.1	56.8	47.3	31.1	27.4	19.8	14.7	13.3	10.8	8.94	7.37	4.05
1.80V	184	146	116	76.2	56.3	46.9	30.8	27.3	19.7	14.6	13.1	10.7	8.86	7.30	4.03
1.85V	164	136	103	69.9	52.2	43.5	30.3	26.1	18.7	14.4	12.5	10.5	8.56	7.18	3.99

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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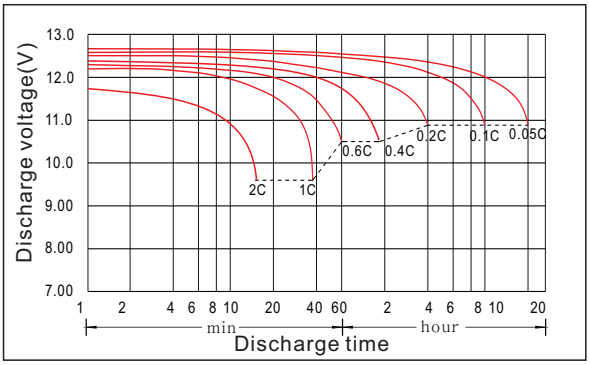
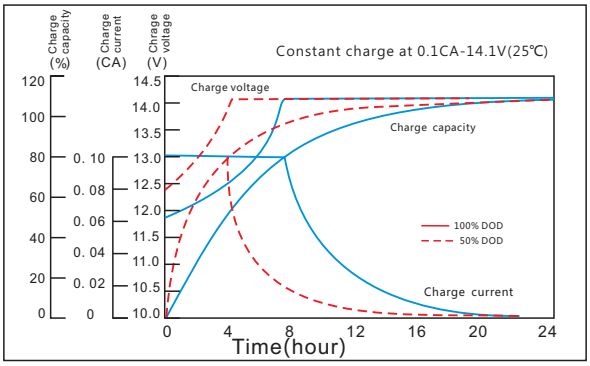
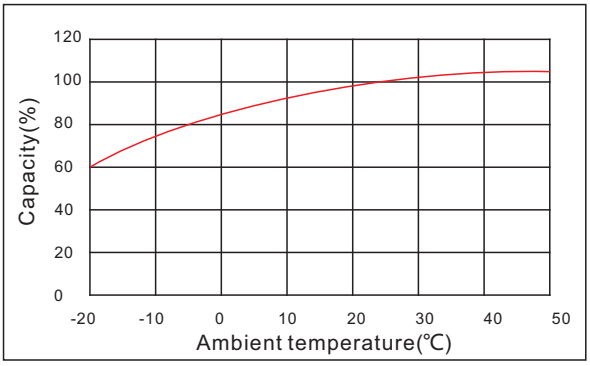
Discharge characteristic



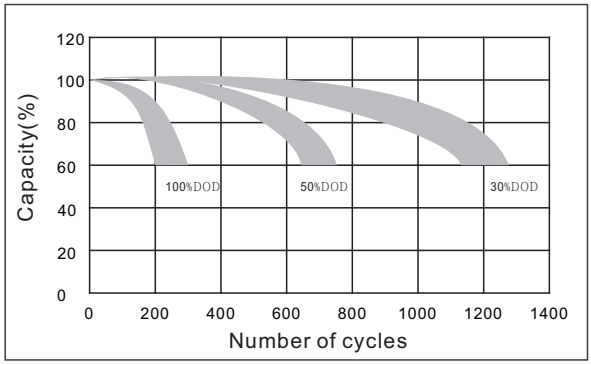
Charging characteristic



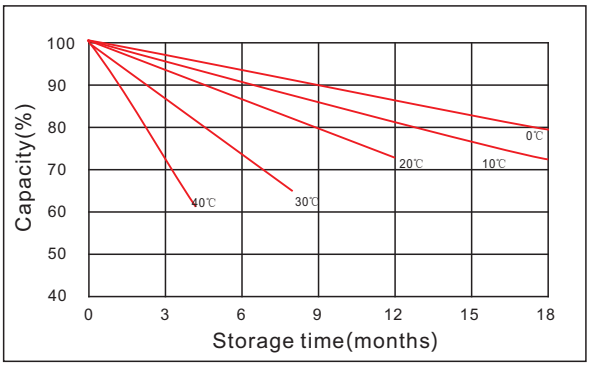
The effect of temperature on capacity



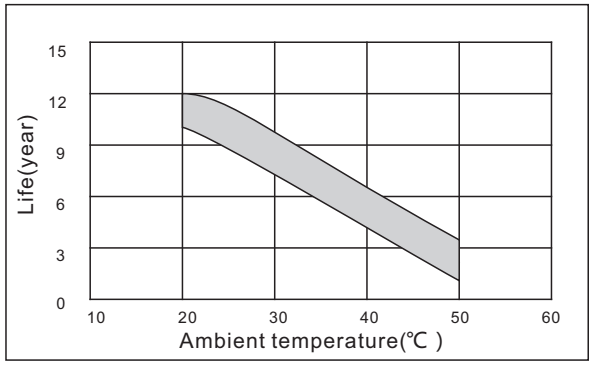
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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