京九电源
KIJO BATTERY

JM Series lead-acid battery

Executive standard GB/T 19639.1-2014

JM12-40

Applications

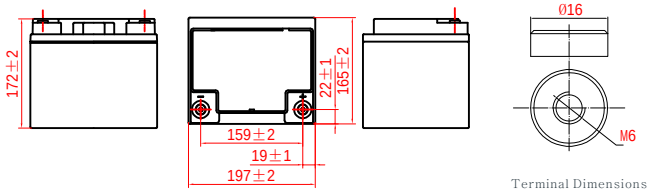
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

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

ISO 9001 CQM | ISO 14001 CQM | OHSAS 18001 CQM | RoHS

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



Terminal Dimensions

Specification

Nominal Voltage	12V		
Nominal Capacity	40Ah		
Design life	10 years		
Terminal	M6		
Approx. Weight	Approx 13.2kg (29.1lbs)		
Rated Capacity	40.0Ah	10Hour Rate	(4.00A to 10.8V)
	32.7Ah	3Hour Rate	(10.9A to 10.2V)
	26.9Ah	1Hour Rate	(26.9A to 9.6V)
Internal resistance	Full charged at 25°C:		9.3 mΩ
Max. Discharge Current	480A(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. 10.0A ; Recom.4.0A	
	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	141	93.6	75.7	46.1	33.0	26.9	16.9	15.4	11.2	8.11	7.53	6.00	4.94	4.16	2.18
1.65V	137	93.3	73.4	45.3	32.9	26.8	16.8	15.4	11.1	8.03	7.45	5.94	4.90	4.12	2.17
1.70V	131	92.6	71.9	44.5	32.6	26.6	16.6	15.2	10.9	7.96	7.37	5.88	4.86	4.08	2.16
1.75V	121	91.2	69.5	44.1	32.1	26.2	16.4	15.0	10.8	7.88	7.29	5.82	4.82	4.04	2.15
1.80V	108	88.7	64.8	42.2	31.3	25.5	16.3	14.7	10.7	7.80	7.10	5.77	4.78	4.00	2.14
1.85V	96.4	82.1	57.8	38.5	28.9	23.6	15.8	14.0	10.1	7.57	6.74	5.59	4.58	3.88	2.10

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	236	159	133	83.3	61.1	50.9	33.8	29.2	21.3	16.0	14.3	11.7	9.60	8.00	4.32
1.65V	227	158	131	82.6	60.6	50.5	33.4	29.1	21.1	15.8	14.2	11.6	9.52	7.92	4.30
1.70V	226	156	129	82.6	60.1	50.1	33.1	29.0	20.9	15.7	14.1	11.5	9.48	7.84	4.28
1.75V	211	155	129	82.2	59.6	49.7	32.7	28.9	20.8	15.5	14.0	11.4	9.41	7.76	4.26
1.80V	194	154	122	80.2	59.3	49.4	32.4	28.8	20.7	15.4	13.8	11.3	9.33	7.68	4.24
1.85V	173	143	109	73.5	55.0	45.8	31.9	27.5	19.7	15.1	13.2	11.1	9.01	7.56	4.20

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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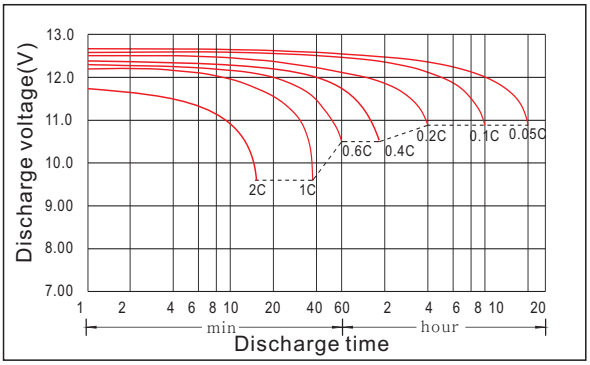
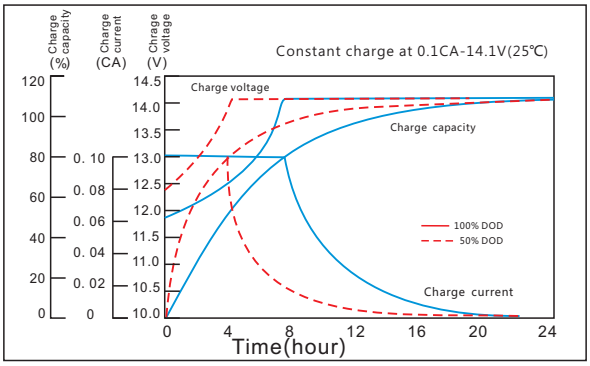
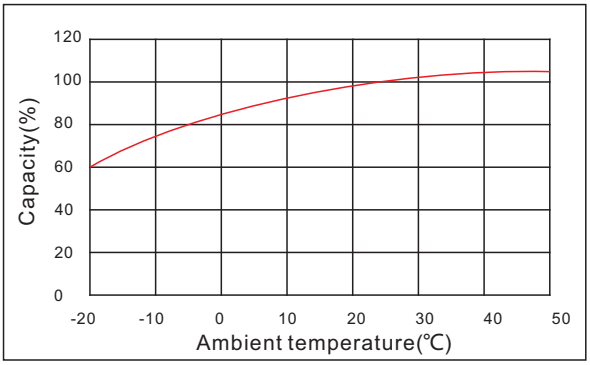
Discharge characteristic



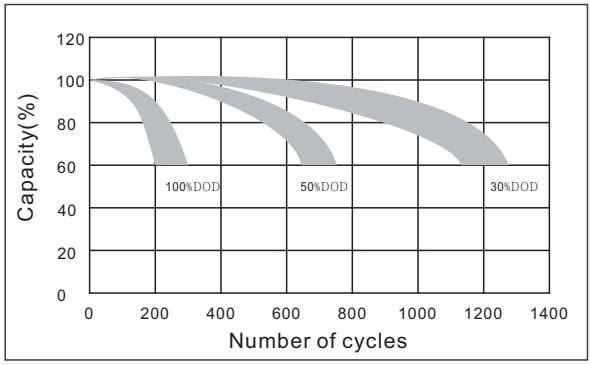
Charging characteristic



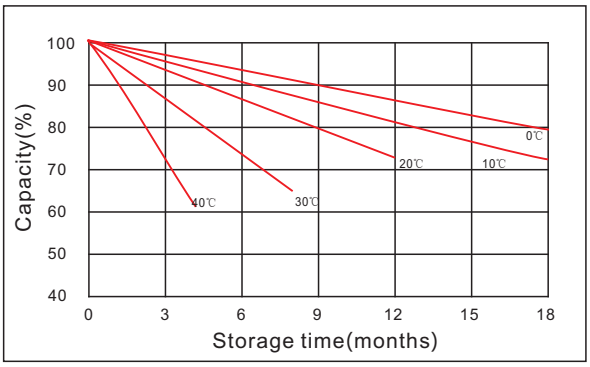
The effect of temperature on capacity



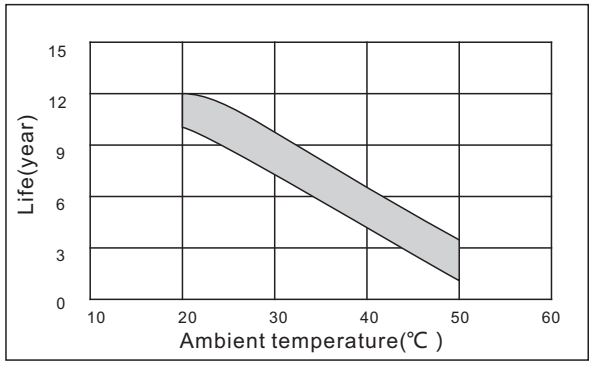
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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