京九电源
KIJO BATTERY

JM Series lead-acid battery

JM12-120

Executive standard YD/T 799-2010

Applications

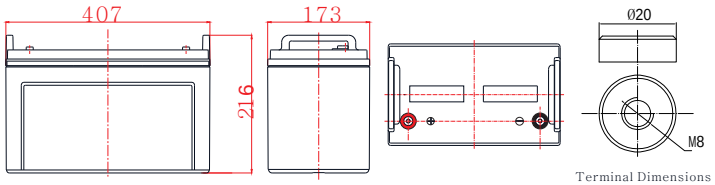
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

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:407(L)×173(W) ×216(H)×216(TH) Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	12V	
Nominal Capacity	120Ah	
Design life	10 years	
Terminal	M8	
Approx. Weight	Approx 33.5kg (73.9lbs)	
Container Material	ABS	
Rated Capacity	120Ah	20Hour Rate (6.00A to 10.5V)
	95.7Ah	3Hour Rate (31.9A to 10.2V)
	73.8Ah	1Hour Rate (73.8A to 9.6V)
Internal resistance	Full charged at 25°C:	4.8 mΩ
Max. Discharge Current	1440A(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. 30.0A ; Recom.12.0A
	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	306	263	199	120	93.1	73.8	49.8	45.7	32.8	23.7	22.0	17.6	14.5	12.2	6.26
1.65V	301	256	189	118	91.9	73.5	49.2	45.1	32.5	23.5	21.8	17.4	14.3	12.1	6.18
1.70V	289	253	187	116	90.7	72.9	48.6	44.5	31.9	23.3	21.6	17.2	14.2	12.0	6.09
1.75V	266	244	185	115	90.1	72.0	48.3	43.9	31.6	23.1	21.4	17.1	14.1	11.9	6.00
1.80V	238	226	169	110	86.6	70.0	47.7	43.0	31.3	22.9	20.8	16.9	14.0	11.7	5.91
1.85V	212	210	153	100	79.6	65.0	46.2	41.0	29.6	22.2	19.7	16.4	13.4	11.4	5.77

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	520	461	358	216	172	141	96.5	88.6	63.6	46.0	42.7	34.2	28.1	23.7	12.3
1.65V	512	447	340	212	170	140	95.4	87.4	63.0	45.6	42.4	34.0	28.0	23.6	12.1
1.70V	491	444	337	209	168	139	94.3	86.3	61.9	45.1	41.9	33.4	27.8	23.4	11.9
1.75V	452	426	333	207	167	138	93.7	85.1	61.3	44.8	41.4	33.2	27.6	23.1	11.8
1.80V	404	396	305	198	160	134	92.6	83.5	60.8	44.3	40.3	32.7	27.3	22.8	11.6
1.85V	363	370	277	182	148	125	90.2	79.9	57.6	43.3	38.5	32.0	26.3	22.3	11.4

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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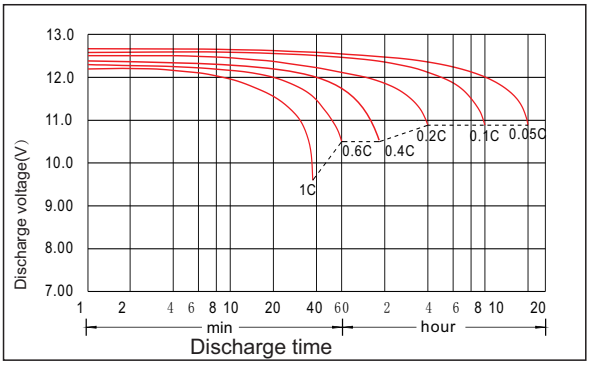
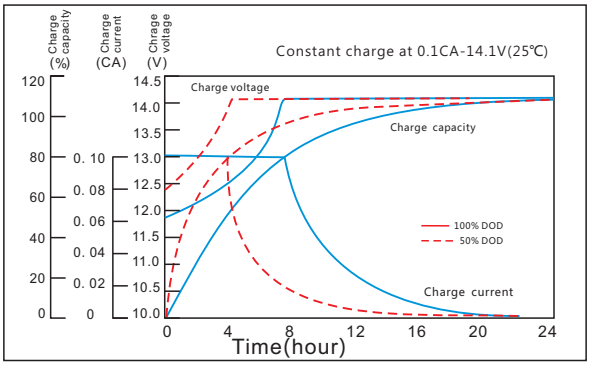
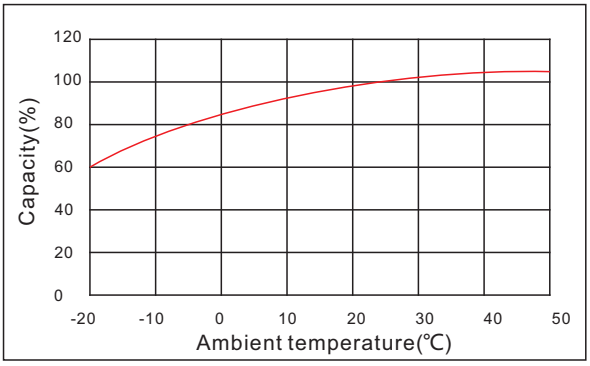
Discharge characteristic



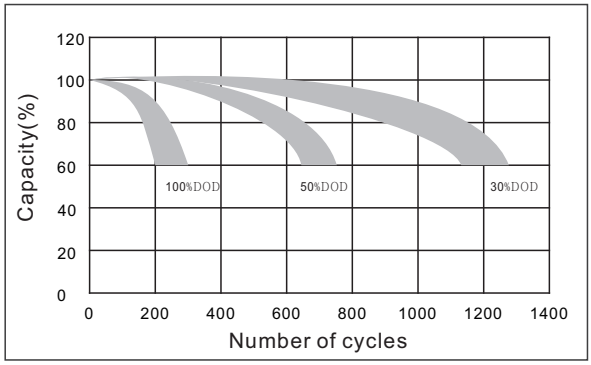
Charging characteristic



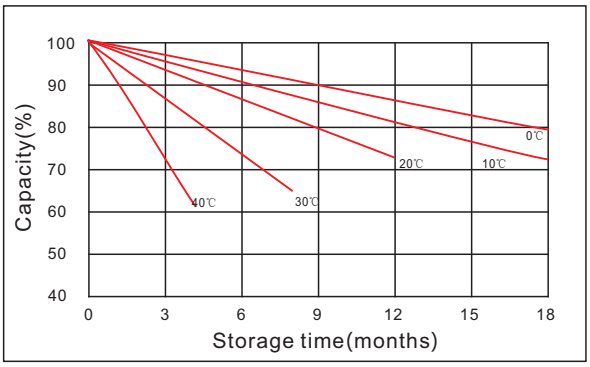
The effect of temperature on capacity



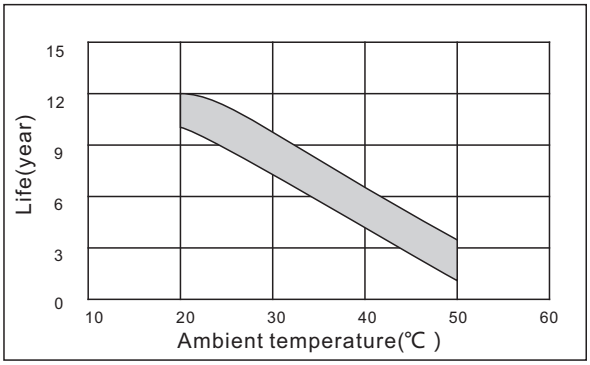
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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