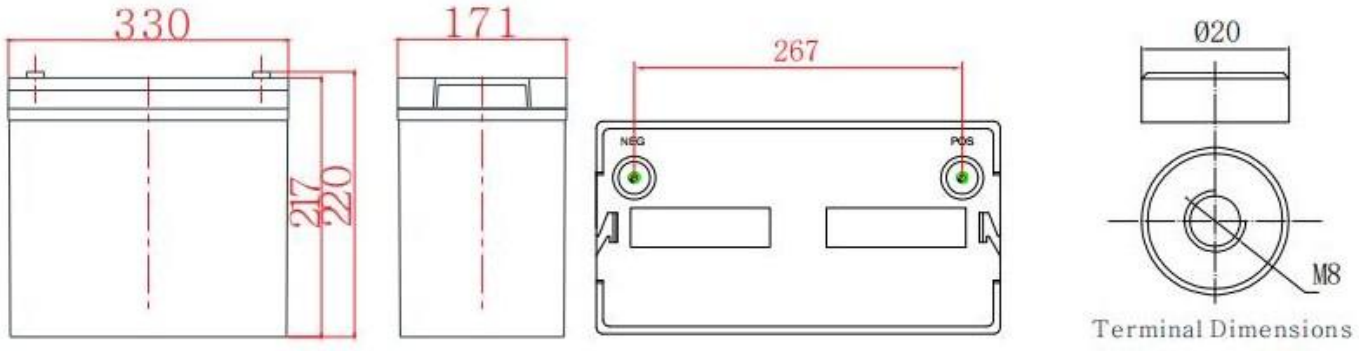
JM Series lead-acid battery JM12-100L

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:330(L)×171(W) ×217(H)×220(TH) **Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	100Ah@10hour-rate to 1.80V per cell @25℃
Design life	10 years (up to15 years in float service)
Terminal	M8
Approx. Weight	Approx29.0kg±3% (63.9±3%lbs)
Container Material	ABS (UL94-HB, UL94-V0 Optional)
short-circuit current	2400A
Internal resistance(Full charged at 25°C:)	5.0 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~60℃(-4~ 140°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~60℃(-4~ 140°F)
Charge Method(25 °C)	
Charge current:	Max. 30A;Recom.10A
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)

Standards

Executive standard: IEC 60896-21/22、GB/T 19638.1-2014

Applications

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

Rated Capacity

10Hour Rate (10.0A to 10.8V)	100.0Ah
3Hour Rate (26.6A to 10.2V)	79.8Ah
1Hour Rate (72.1A to 9.6V)	72.1Ah

Attain Certificate

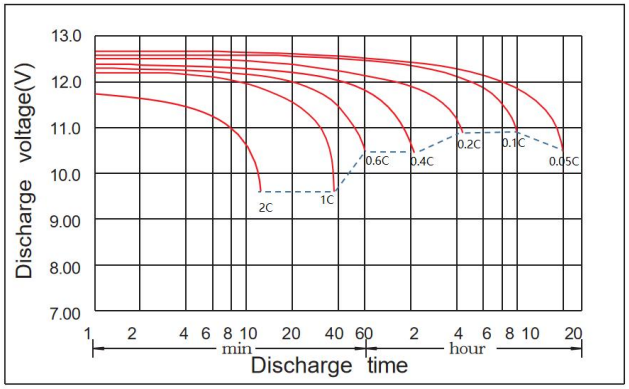
ISO 9001 CQM · ISO 14001 CQM · OHSAS 18001 CQM · RoHS

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.

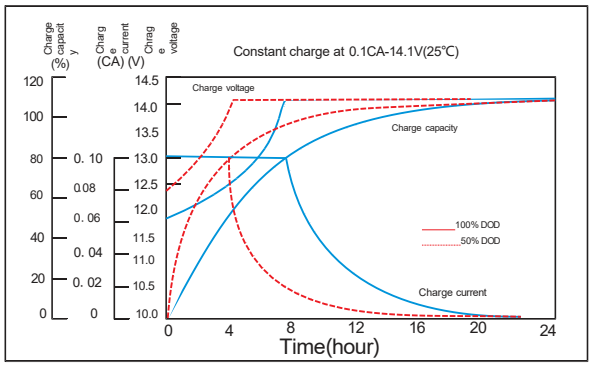
FORTE
BATTERY SYSTEMS

JM Series lead-acid battery JM12-100L

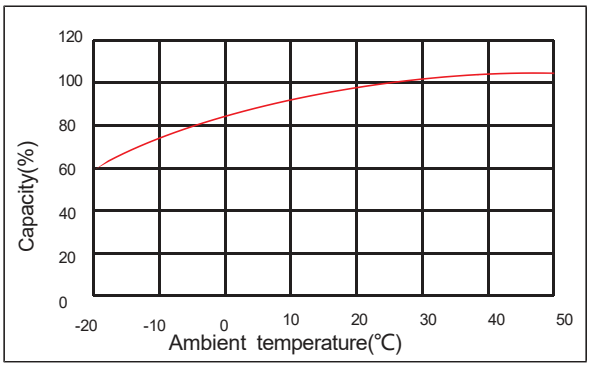
Discharge characteristic



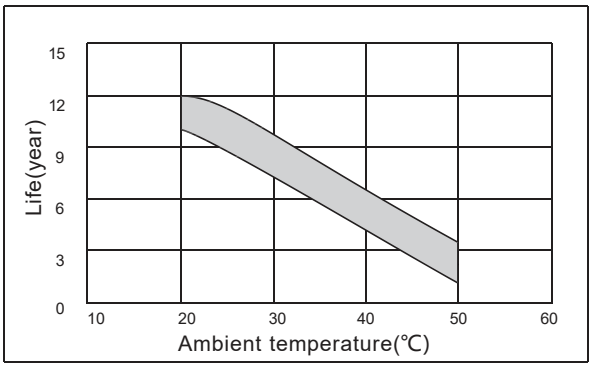
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	184.5	109.5	80.2	72.1	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.5	5.52
1 65V	177.3	105.1	77.0	69.9	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.4	5.43
1.70V	166.0	100.5	73.6	66.4	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.3	5.38
1.75V	154.5	95.1	70.3	65.5	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.1	5.35
1 80V	145.5	92.5	67.8	63.8	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.0	5.30
1.85V	120.7	78.3	59.2	59.1	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.2	5.08

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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	324.1	198.9	145.9	115.8	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.7	10.9
1 65V	314.5	193.0	141.2	112.5	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.5	10.7
1.70V	298.9	186.3	139.5	109.6	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.2	10.6
1.75V	282.2	179.9	133.8	107.2	81.2	63.9	49.9	39.7	34.0	29.9	23.9	20.0	10.6
1 80V	266.9	173.7	128.7	102.8	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.8	10.5
1.85V	222.4	151.1	114.4	91.9	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.6	9.87

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Brand: FORTE
Manufactured for: PROYEKTNYYE ENERGETICHESKIYE SISTEMY LLP
by Jiangxi Jingjiu Power Science & Technology Co. Ltd
Made in China