



JSB-G12-75 (12V75Ah)



JSB-G12-75 is GEL Standby battery with 10 + years floating design life time .The solid Gel protects no way to suffer electrolyte stratification and ensure mild corrosion, its special separator eradicates infection between plates to prevent short circuit. it offers extra-durable performance under extreme temperature.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	75Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 23.5 Kg
Max. Discharge Current	750 A (5 sec)
Internal Resistance	Approx. 9 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	15 A
Equalization and Cycle Service	14.2 to 14.4 VDC/unit Average at 25°C
Self Discharge	JALpower batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F11/F15
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



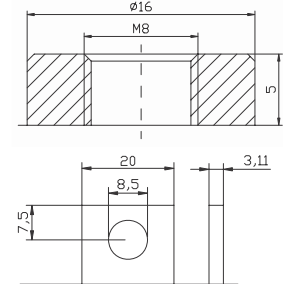
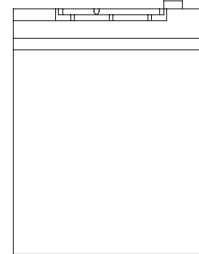
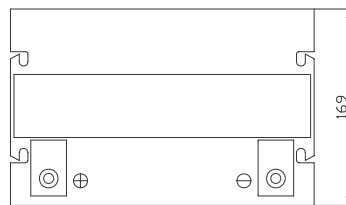
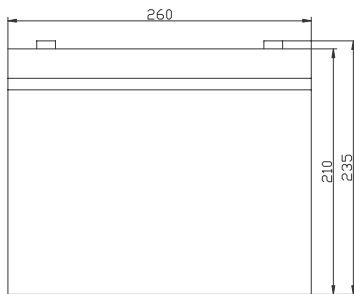
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 260(L)×169(W)×235(H)



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	246.39	176.56	128.47	80.644	45.581	25.518	18.303	15.147	11.921	8.8039	7.4440	3.9367
10.0V	239.80	167.99	125.83	79.311	45.371	25.326	18.233	15.077	11.851	8.7324	7.3724	3.8651
10.2V	225.97	162.06	123.85	78.610	44.950	25.134	18.092	15.007	11.781	8.6608	7.3008	3.7936
10.5V	202.91	149.55	117.93	76.647	44.529	24.942	18.022	14.867	11.641	8.5892	7.2293	3.7220
10.8V	183.15	136.37	108.70	73.281	43.478	24.494	17.531	14.516	11.430	8.4461	7.1577	3.6504
11.1V	159.43	121.88	97.502	68.652	41.304	23.407	16.760	13.815	10.940	8.0882	6.9429	3.4357

Constant Power Discharge Characteristics: W (25°C)

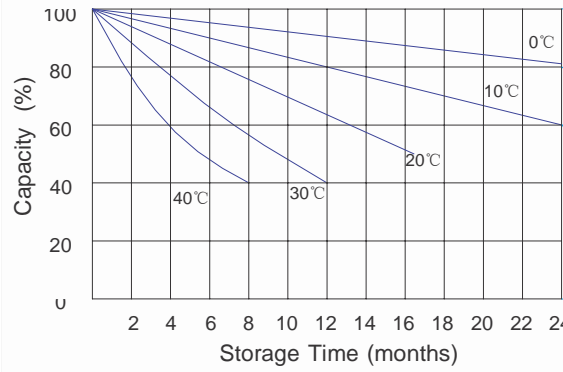
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	2567.5	1877.5	1382.4	910.08	521.31	293.55	211.22	175.03	138.01	102.16	83.703	44.212
10.0V	2515.1	1793.2	1353.6	898.72	518.78	292.40	210.80	174.61	137.16	101.73	82.845	43.783
10.2V	2374.2	1733.5	1335.3	888.20	515.00	289.71	209.53	173.77	136.74	100.87	82.415	43.354
10.5V	2137.9	1601.8	1273.2	868.01	509.95	287.03	208.27	172.51	135.48	100.01	81.557	42.925
10.8V	1923.1	1454.4	1169.8	828.46	497.33	282.80	203.22	167.88	133.38	97.868	80.699	42.495
11.1V	1660.0	1291.6	1044.6	776.28	471.24	269.76	193.12	159.89	126.65	94.434	78.123	40.778

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



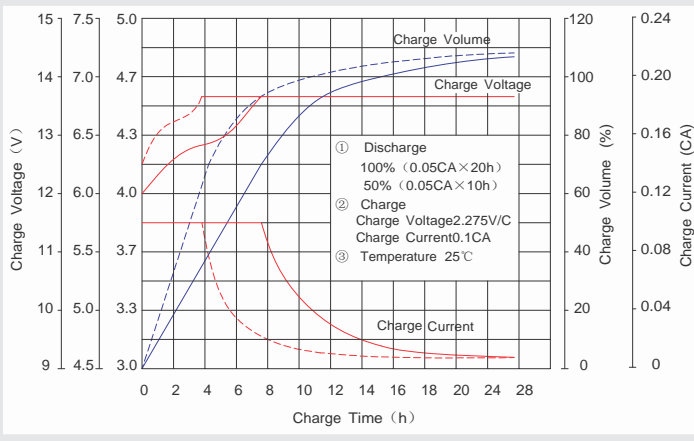
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

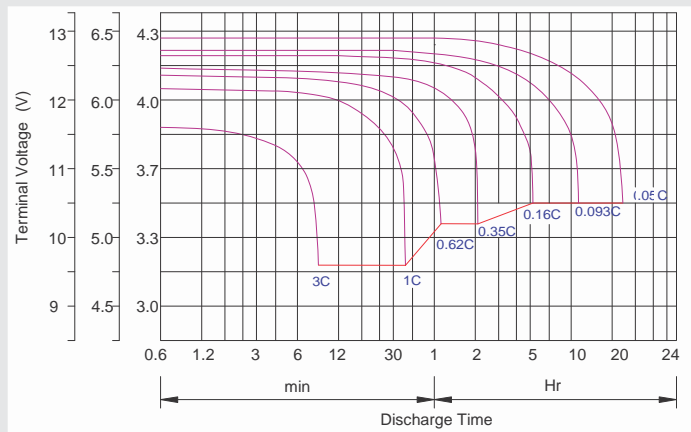
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.2CA, constant voltage 2.35-2.4V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.35-2.4V/cellx24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h