



JSB-A12-85 (12V85Ah)

JSB-A12-85 is a general purpose battery with 10 years floating design life, meet with IEC, JIS .BS and Eurobat standard. With heavy duty grid, thickness plates, special additives, JSB-A series battery have long and reliable standby service life. Our JSB-A series batteries keep high consistent for better performance in series usage.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	85Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 26.0 Kg
Max. Discharge Current	850A (5 sec)
Internal Resistance	Approx. 5.2 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°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	25.5A
Equalization and Cycle Service	14.6 to 14.8 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



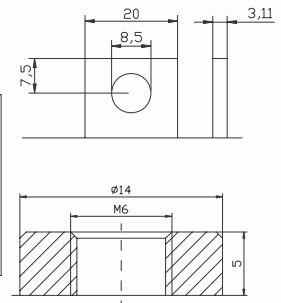
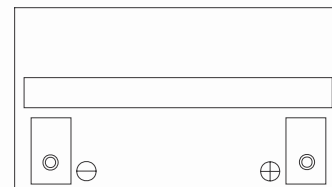
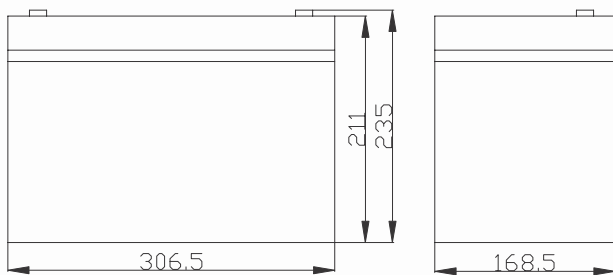
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 306.5(L)×168.5(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	297.02	218.69	159.12	97.750	55.250	30.863	22.185	18.360	15.028	10.559	8.9275	4.7213
10.0V	288.44	208.08	155.86	96.135	54.995	30.631	22.100	18.275	14.940	10.473	8.8417	4.6354
10.2V	279.89	200.74	153.41	95.285	54.485	30.399	21.930	18.190	14.851	10.387	8.7558	4.5496
10.5V	251.33	185.23	146.06	92.905	53.975	30.167	21.845	18.020	14.674	10.301	8.6700	4.4638
10.8V	226.85	168.91	134.64	88.825	52.700	29.625	21.250	17.595	14.409	10.129	8.5842	4.3779
11.1V	197.47	150.96	120.77	83.215	50.065	28.310	20.315	16.745	13.790	9.7001	8.3266	4.1204

Constant Power Discharge Characteristics: W(25°C)

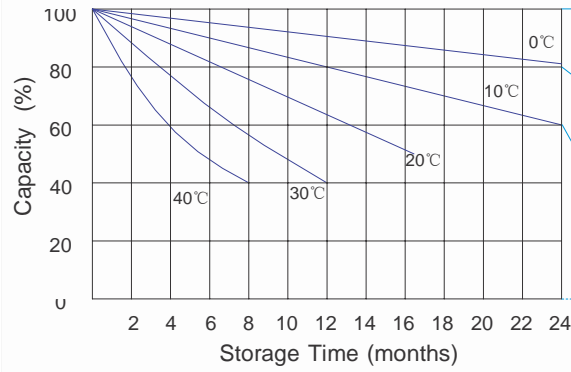
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	3115.2	2325.5	1712.2	1048.0	631.89	355.04	256.02	212.16	173.97	122.52	100.38	53.024
10.0V	3031.9	2221.1	1676.7	1034.9	628.83	353.64	255.51	211.65	172.91	122.01	99.355	52.509
10.2V	2940.7	2147.2	1653.9	1022.8	624.24	350.40	253.98	210.63	172.38	120.98	98.840	51.994
10.5V	2648.0	1984.0	1577.0	999.5	618.12	347.15	252.45	209.10	170.79	119.95	97.811	51.479
10.8V	2381.9	1801.4	1449.0	954.0	602.82	342.04	246.33	203.49	168.14	117.37	96.781	50.965
11.1V	2056.1	1599.8	1293.9	893.90	571.20	326.26	234.09	193.80	159.65	113.25	93.693	48.905

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



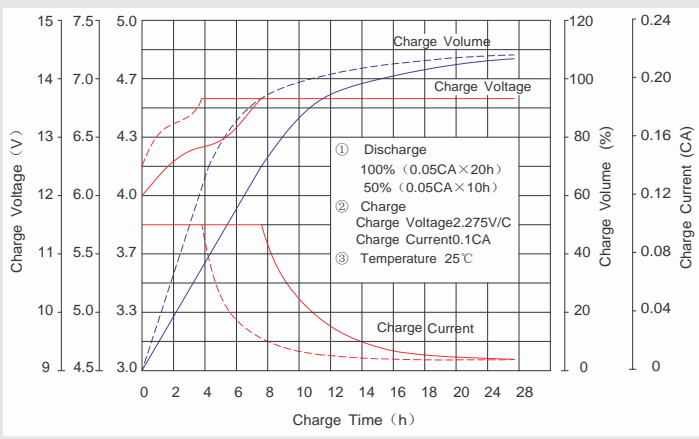
Supplementary charge required before use if 100% capacity is requires)

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

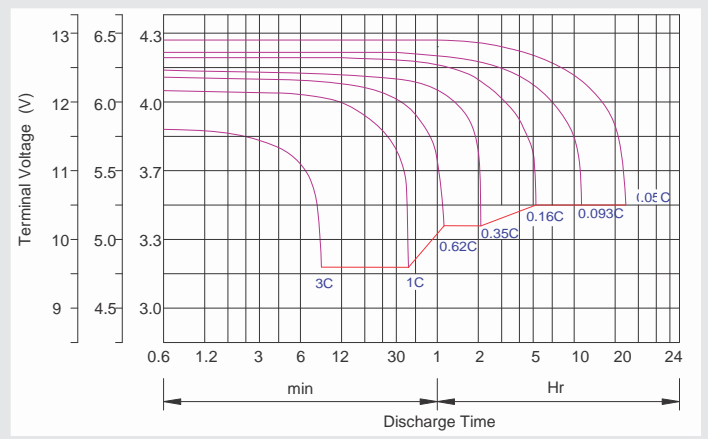
Supplementary charge may often fail to recover the capacity. The battery should never be left

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

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

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx 12h
Fast	-0.2Cx2h+0.3CAx4.0h

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 0.3CA, constant voltage 2.4-2.45V/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.