



# JSB-G12-65 (12V65Ah)

JSB-G12-65 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	65Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 21 Kg
Max. Discharge Current	650 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	13 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 F5/F11
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



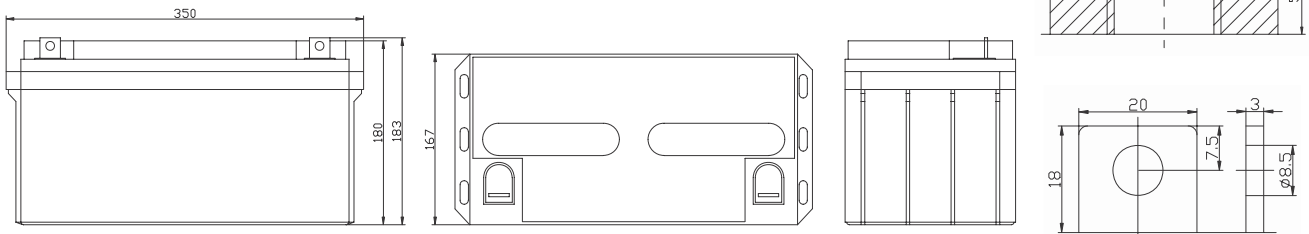
G4M20206-0910-E-16



ISO9001:2000 Certificate

## Dimensions

Unit: mm Dimension: 350(L)×167(W)×183(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	213.54	153.02	111.34	69.891	39.504	22.115	15.862	13.127	10.332	7.6301	6.4514	3.4118
10.0V	207.83	145.59	109.05	68.737	39.321	21.949	15.802	13.067	10.271	7.5680	6.3894	3.3498
10.2V	195.84	140.46	107.34	68.129	38.957	21.783	15.680	13.006	10.210	7.5060	6.3274	3.2878
10.5V	175.86	129.61	102.20	66.427	38.592	21.616	15.619	12.884	10.089	7.4440	6.2654	3.2257
10.8V	158.73	118.19	94.208	63.510	37.681	21.228	15.194	12.580	9.9063	7.3199	6.2033	3.1637
11.1V	138.17	105.63	84.502	59.499	35.796	20.286	14.525	11.973	9.4809	7.0097	6.0172	2.9776

### Constant Power Discharge Characteristics: W (25°C)

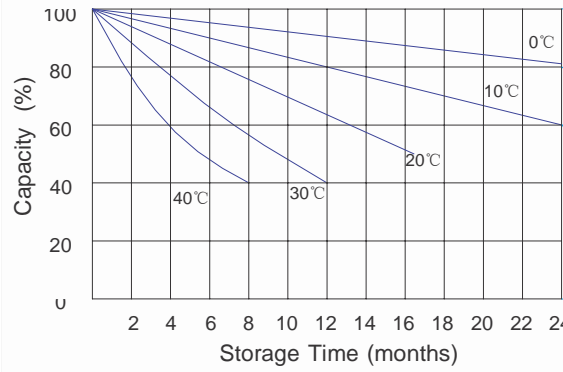
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	2225.2	1627.2	1198.1	788.74	451.80	254.41	183.05	151.69	119.61	88.539	72.543	38.317
10.0V	2179.7	1554.1	1173.2	778.89	449.61	253.41	182.69	151.33	118.88	88.167	71.799	37.945
10.2V	2057.6	1502.4	1157.2	769.78	446.33	251.08	181.60	150.60	118.51	87.423	71.427	37.573
10.5V	1852.8	1388.2	1103.5	752.27	441.96	248.76	180.50	149.51	117.42	86.679	70.683	37.201
10.8V	1666.7	1260.4	1013.9	718.00	431.02	245.10	176.13	145.50	115.59	84.819	69.939	36.829
11.1V	1438.7	1119.4	905.34	672.78	408.41	233.79	167.37	138.57	109.76	81.843	67.707	35.341

All mentioned values are average values.

### Effect of temperature on long term float life



### Storage characteristic



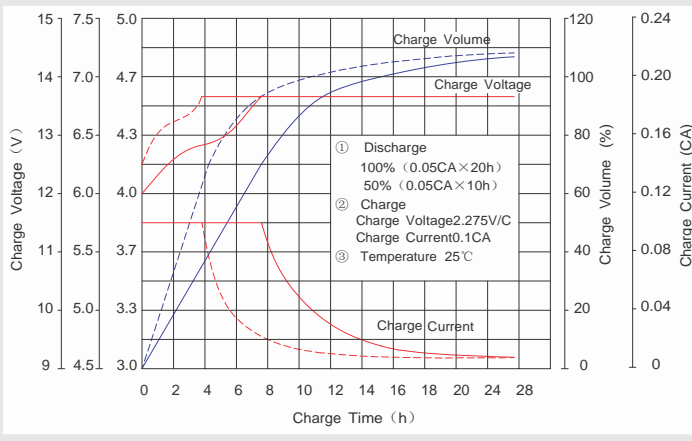
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

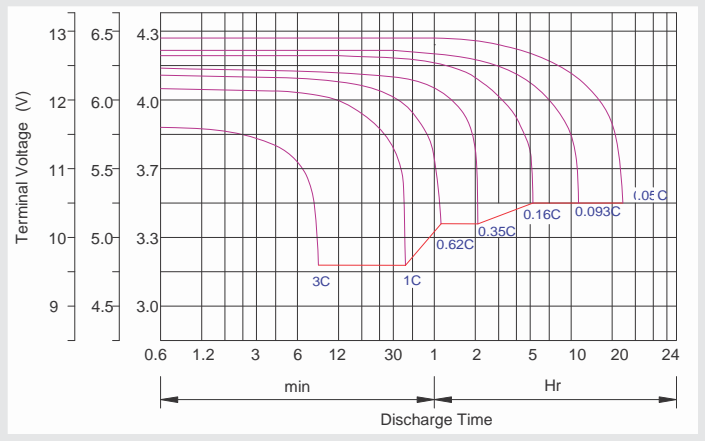
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

### Charge characteristic Curve for standby us



### 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

<b>Float Service:</b>
※ 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