



JSB-G12-55 (12V55Ah)

JSB-G12-55 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	55Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 18 Kg
Max. Discharge Current	550 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	11A
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 11/F15
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



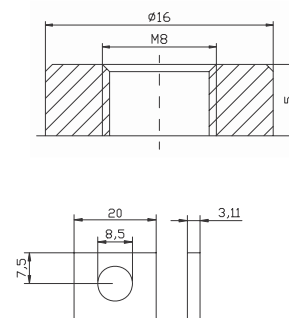
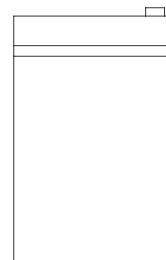
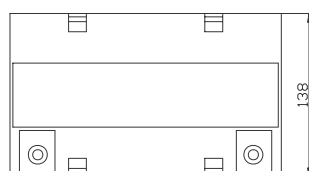
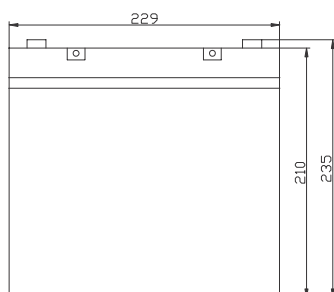
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ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 229(L)×138(W)×210(H)



Constant Current Discharge Characteristics: A (25°C)

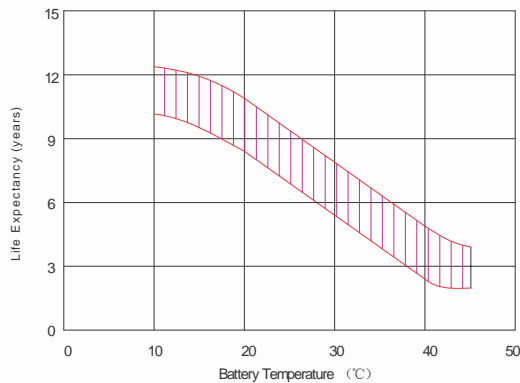
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	180.69	129.48	94.208	59.139	33.426	18.713	13.422	11.108	8.7423	6.4562	5.4589	2.8869
10.0V	175.86	123.20	92.276	58.162	33.272	18.572	13.371	11.056	8.6908	6.4037	5.4064	2.8344
10.2V	165.71	118.85	90.827	57.647	32.963	18.432	13.268	11.005	8.6394	6.3512	5.3539	2.7819
10.5V	148.80	109.67	86.478	56.208	32.655	18.291	13.216	10.902	8.5366	6.2988	5.3015	2.7295
10.8V	134.31	100.01	79.715	53.739	31.884	17.963	12.856	10.645	8.3823	6.1938	5.2490	2.6770
11.1V	116.92	89.377	71.502	50.345	30.289	17.165	12.291	10.131	8.0223	5.9313	5.0915	2.5195

Constant Power Discharge Characteristics: W (25°C)

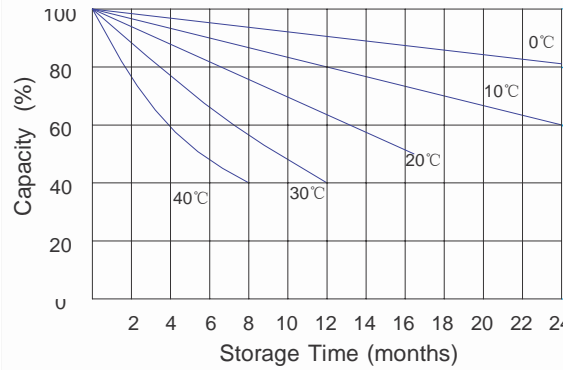
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	1882.9	1376.8	1013.7	667.39	382.29	215.27	154.89	128.36	101.20	74.918	61.382	32.422
10.0V	1844.4	1315.0	992.68	659.06	380.44	214.42	154.58	128.05	100.59	74.603	60.753	32.108
10.2V	1741.0	1271.2	979.20	651.35	377.67	212.46	153.66	127.43	100.28	73.974	60.438	31.793
10.5V	1567.8	1174.6	933.70	636.54	373.96	210.49	152.73	126.51	99.353	73.344	59.808	31.478
10.8V	1410.2	1066.5	857.89	607.53	364.71	207.39	149.03	123.11	97.810	71.770	59.179	31.163
11.1V	1217.3	947.18	766.06	569.27	345.58	197.82	141.62	117.25	92.874	69.252	57.290	29.904

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



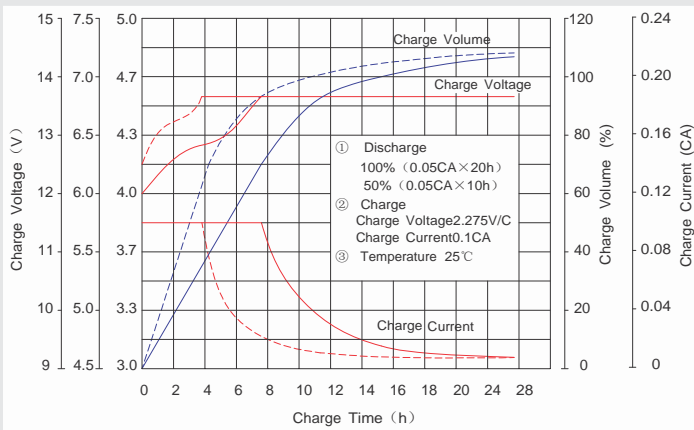
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

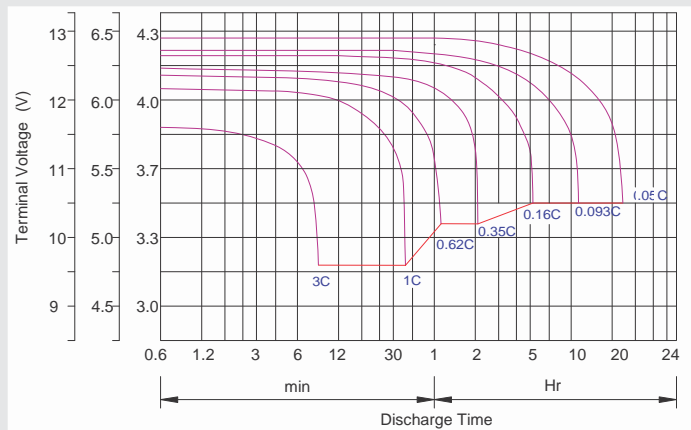
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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