



JSB-G12-150 (12V150Ah)

JSB-G12-150 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	150Ah@20hr-rate to 1.75V per cell @25 °C
Weight	Approx. 44.5 Kg
Max. Discharge Current	1500 A (5 sec)
Internal Resistance	Approx. 6 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	30 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/F12
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



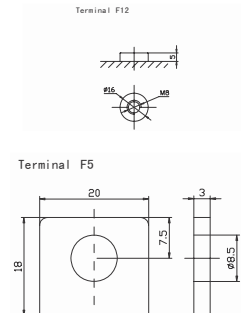
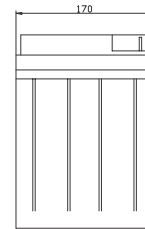
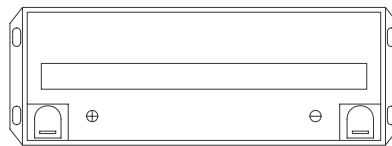
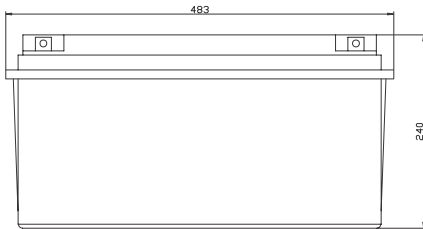
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ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 483(L)×170(W)×240(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	492.78	353.12	256.93	161.29	91.163	51.035	36.605	30.294	23.843	17.608	14.888	7.8734
10.0V	479.61	335.99	251.66	158.62	90.742	50.652	36.465	30.154	23.702	17.465	14.745	7.7303
10.2V	451.94	324.13	247.71	157.22	89.900	50.268	36.185	30.014	23.562	17.322	14.602	7.5871
10.5V	405.82	299.10	235.85	153.29	89.059	49.884	36.044	29.733	23.282	17.178	14.459	7.4440
10.8V	366.29	272.74	217.40	146.56	86.955	48.989	35.063	29.032	22.861	16.892	14.315	7.3008
11.1V	318.86	243.76	195.00	137.30	82.607	46.814	33.520	27.629	21.879	16.176	13.886	6.8714

Constant Power Discharge Characteristics: W (25°C)

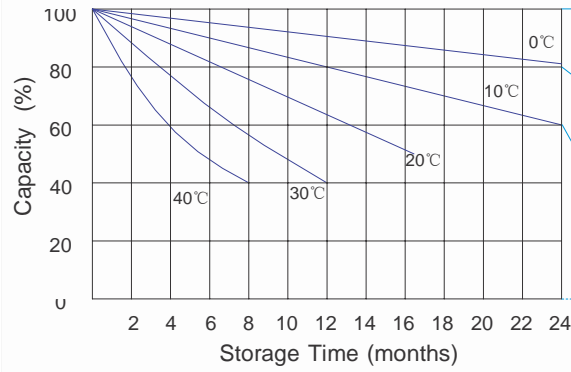
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	4693.3	3432.0	2526.9	1820.2	1042.6	587.10	422.43	350.06	276.01	204.32	167.41	88.425
10.0V	4597.4	3278.0	2474.4	1797.4	1037.6	584.80	421.59	349.22	274.33	203.46	165.69	87.566
10.2V	4339.8	3168.8	2440.8	1776.4	1030.0	579.42	419.07	347.54	273.49	201.75	164.83	86.708
10.5V	3908.0	2928.0	2327.4	1736.0	1019.9	574.05	416.54	345.02	270.96	200.03	163.11	85.849
10.8V	3515.3	2658.5	2138.4	1656.9	994.65	565.61	406.44	335.76	266.76	195.74	161.40	84.991
11.1V	3034.4	2361.0	1909.5	1552.6	942.48	539.52	386.25	319.77	253.29	188.87	156.25	81.557

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



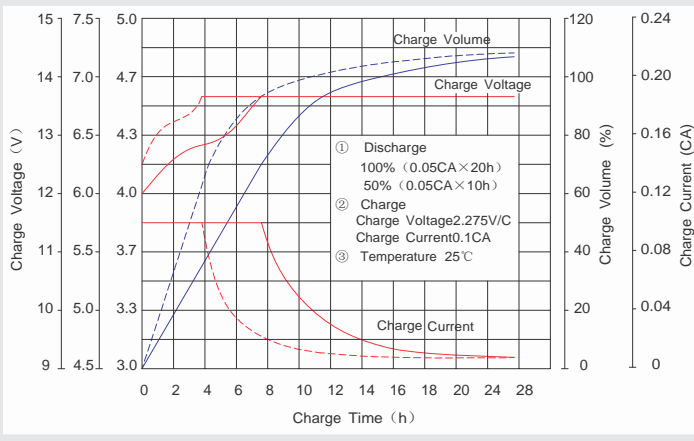
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

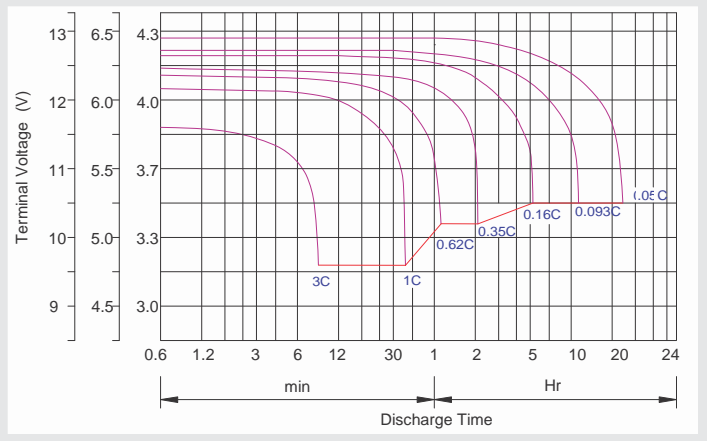
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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