



JSB-D12-145 (12V145Ah)

JSB-D12-145 is AGM Deep cycle battery with 10 years floating design life, specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, it makes battery have 30% more cyclic life time than standby series. It is applicable for solar energy system, golf cart, electric wheelchair, etc..



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	145Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 44.0 Kg
Max. Discharge Current	1450 A (5 sec)
Internal Resistance	Approx. 4 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	43.5 A
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 F5/F12
Container Material	A.B.S. (UL94-HB) , Flammability resistance of UL94-V1 can be available upon request.



MH28539



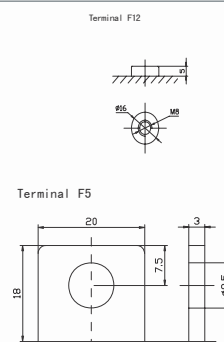
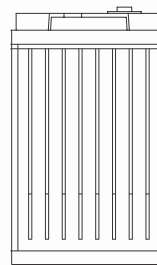
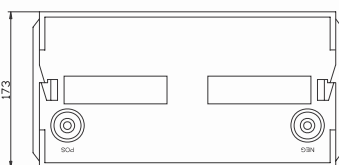
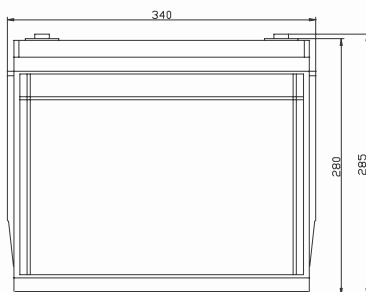
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 340(L)×173(W)×285(H)



Constant Current Discharge Characteristics: A (25°C)

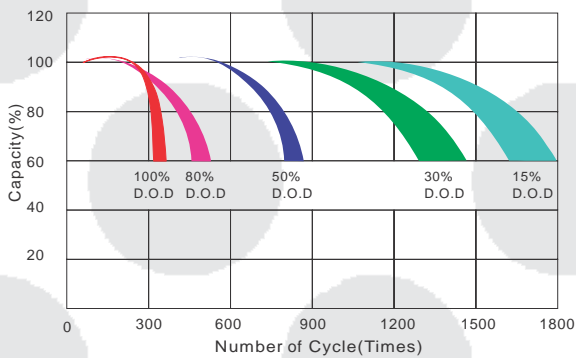
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	499.8	358.1	260.6	160.1	90.48	51.65	36.33	30.07	23.66	17.29	14.62	7.73
10.0V	486.4	340.8	255.2	157.4	90.06	51.26	36.19	29.93	23.52	17.15	14.48	7.59
10.2V	458.4	328.7	251.2	156.0	89.23	50.88	35.91	29.79	23.39	17.01	14.34	7.45
10.5V	411.6	303.3	239.2	152.1	88.39	50.49	35.77	29.51	23.11	16.87	14.20	7.31
10.8V	371.5	276.6	220.5	145.5	86.30	49.58	34.80	28.81	22.69	16.59	14.06	7.17
11.1V	323.4	247.2	197.8	136.3	81.99	47.38	33.27	27.42	21.72	15.89	13.64	6.75

Constant Power Discharge Characteristics: W (25°C)

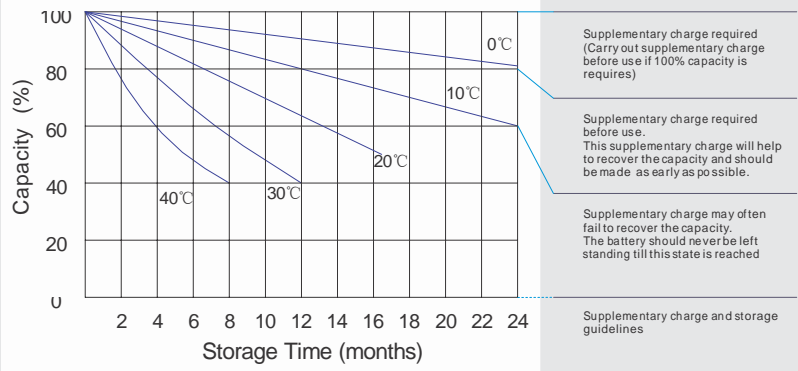
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	4760	3481	2563	1807	1035	594.2	419.3	347.4	273.9	200.6	164.4	86.83
10.0V	4663	3325	2510	1784	1030	591.9	418.4	346.6	272.3	199.8	162.7	85.99
10.2V	4402	3214	2475	1763	1022	586.4	415.9	344.9	271.4	198.1	161.9	85.15
10.5V	3963	2970	2360	1723	1012	581.0	413.4	342.4	268.9	196.4	160.2	84.31
10.8V	3565	2696	2169	1645	987.2	572.5	403.4	333.2	264.8	192.2	158.5	83.46
11.1V	3078	2395	1937	1541	935.4	546.0	383.4	317.4	251.4	185.5	153.4	80.09

All mentioned values are average values.

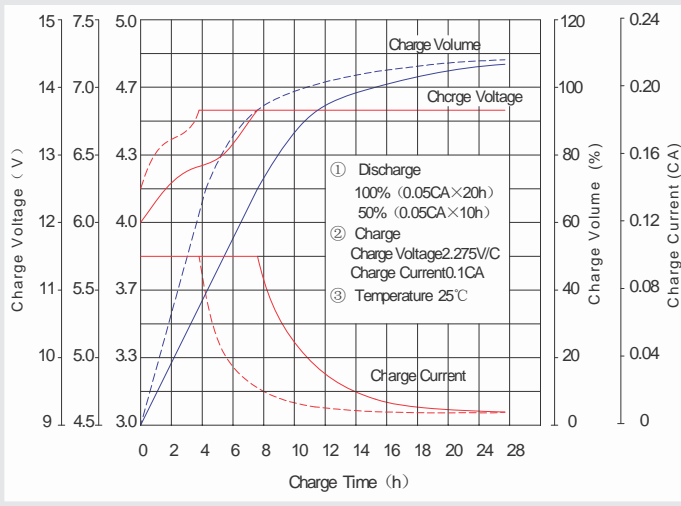
Life characteristics of cyclic use



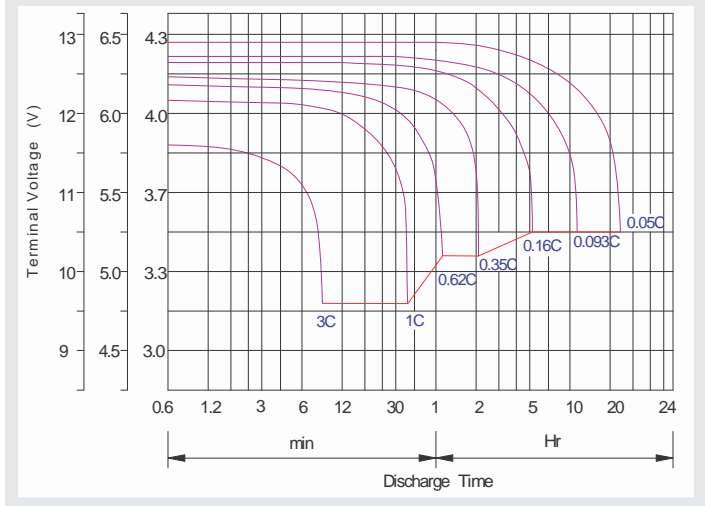
Storage characteristic



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

Cycle service

- ※ Avoid battery over discharge, especially battery series connection use.
- ※ Charged with recommend voltage, ensure battery can be full recharged.
- In general, recharge capacity should be 1.1-1.15 times discharge capacity.
- ※ Effect of temperature on cycle charge voltage: -4mV/°C/Cell.
- ※ There are a number of factors that will affect the length of cyclic service.
- The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged.
- Generally speaking, the most important factors is depth of discharge.

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+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h