

DBU-AGM12200▶ 12V200Ah

AGM series are the universal battery, which adopt the AGM valve Control technology and high purity raw materials. The battery owns the advantage of high consistency, good performance and long cycle Life. The battery is applicable to UPS/EPS, medical equipment and safety system.

► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	190Ah @ 10hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 57 kg±3%
Maximum Discharge Current	1800A(5sec)
Internal Resistance	Approx. 3.4 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	50A
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self- Discharge	Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M8 bolt
Container Material	ABS (UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



► Dimensions :

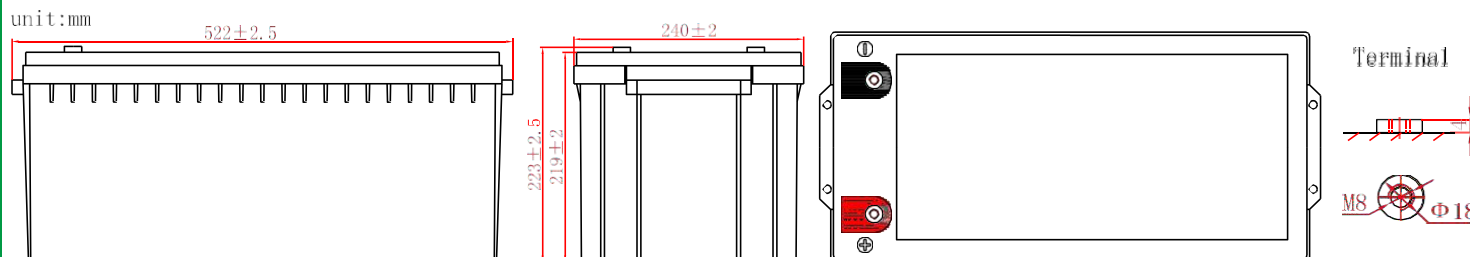
Unit: mm

Overall Height (H)
223±2.5

Container height (h)
219±2

Length (L)
522±2.5

Width (W)
240±2



Constant Current Discharge Characteristics

Unit:A(25°C,77°F)

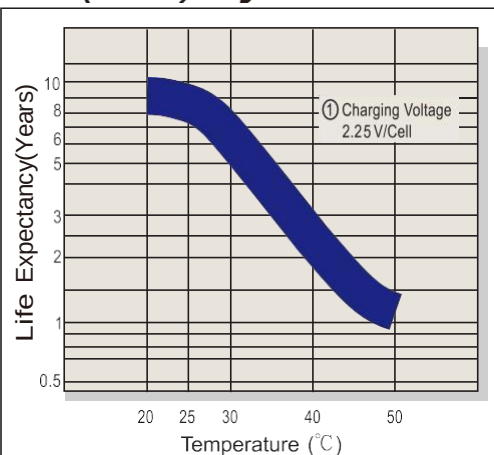
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	198.3	145.6	115.44	50.49	34.10	23.279	19.351	10.346
1.67V	194.5	143.7	113.81	50.10	33.91	23.279	19.255	10.250
1.70V	192.6	141.8	112.47	49.72	33.72	23.183	19.255	10.250
1.75V	185.8	137.9	108.92	48.76	33.15	22.992	19.066	10.155
1.8V	176.3	133.2	104.23	47.04	32.28	22.608	18.872	9.963
1.85V	165.7	126.5	96.66	43.21	29.98	21.555	18.106	9.676

Constant Power Discharge Characteristics

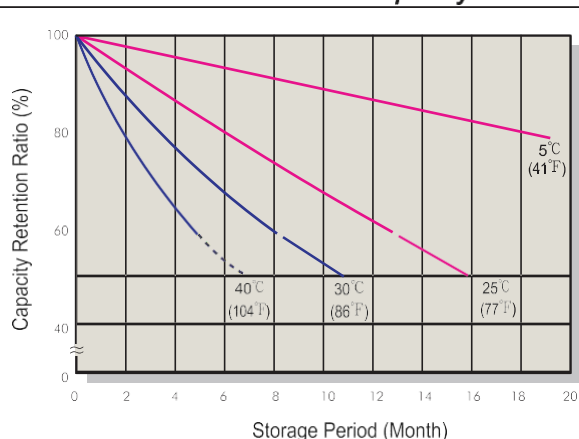
Unit:W (25°C,77°F)

F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	327.6	244.3	196.48	94.74	66.48	45.504	38.032	20.309
1.67V	319.0	237.6	193.90	93.79	66.29	45.313	37.936	20.213
1.7V	309.4	232.8	192.17	93.02	66.10	45.217	37.840	20.118
1.75V	292.2	221.3	187.48	91.30	65.24	44.834	37.563	19.926
1.8V	270.2	206.0	182.59	88.04	63.51	44.067	36.978	19.639
1.85V	241.4	185.8	171.96	81.72	59.68	42.534	35.829	19.160

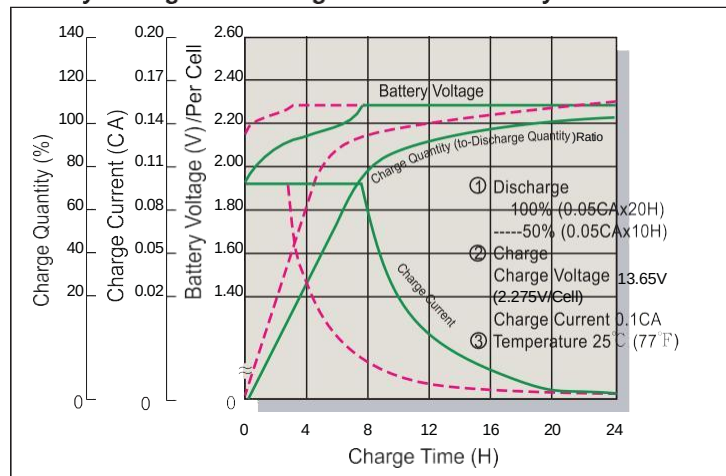
Trickle(or Float)Design Life



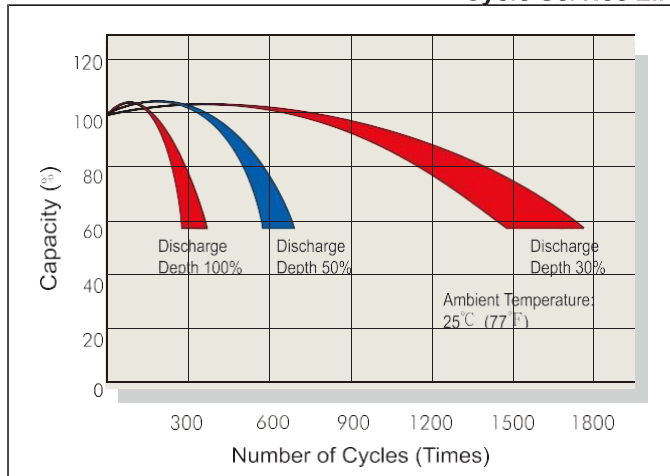
Capacity Retention Characteristic



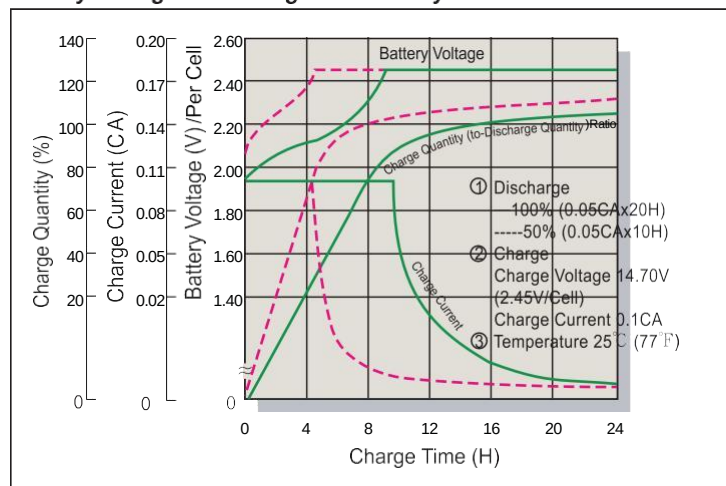
Battery Voltage and Charge Time for Standby Use



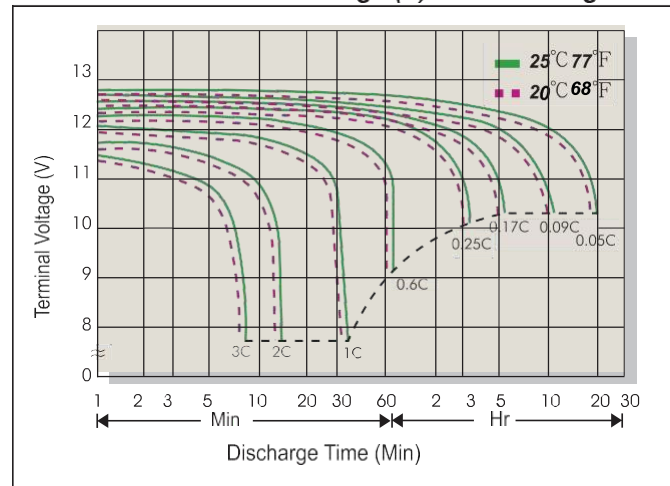
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25(77°F)	2.45	2.40~2.50	0.25C
Standby	25(77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%