

# DBU-AGM1255 ▶ 12V55Ah

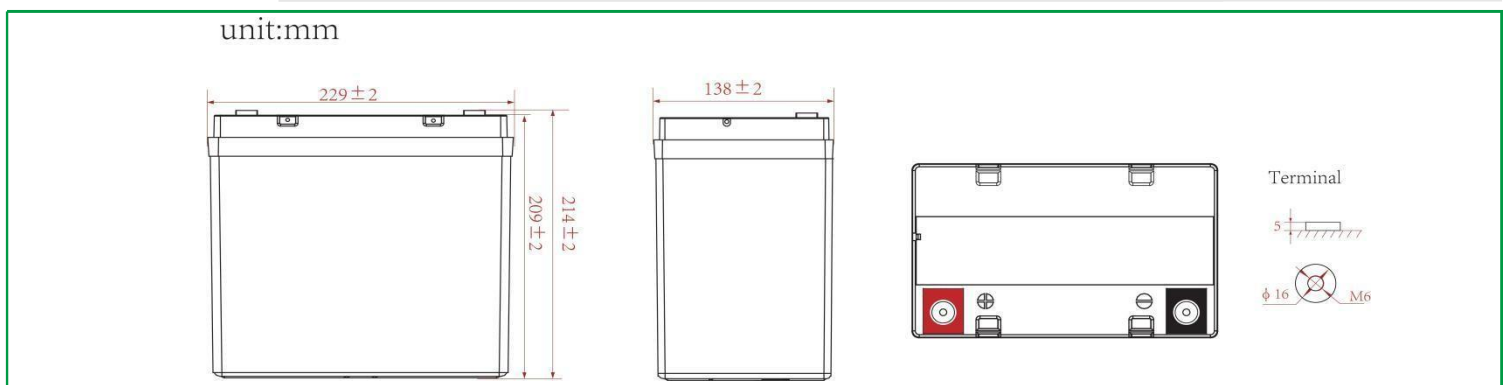
AGM series are the universal battery, which adopt the AGM valve Control technology and high purity raw materials. The battery owns the advantage of high consistency, good performance and long cycle Life. The battery is applicable to UPS/EPS, medical equipment and safety system.

## ► Specification

Internal Cell	6
Nominal Voltage	12
Capacity	55Ah @ 10 hr-rate 1.8V/cell @25°C (77°F)
Weight	Approx. 15.7 kg±3%
Max. Discharging Current	550A(5sec)
Internal Resistance	Approx. 8.7mΩ
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	13.5~13.8V VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	16.5A
Equalization and Cycle Service	14.4~15.0V 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 M6 bolt
Container Material	ABS (UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm	214±2	209±2	229±2	138±2



## Constant Current Discharge Characteristics Unit:A (25°C,77°F)

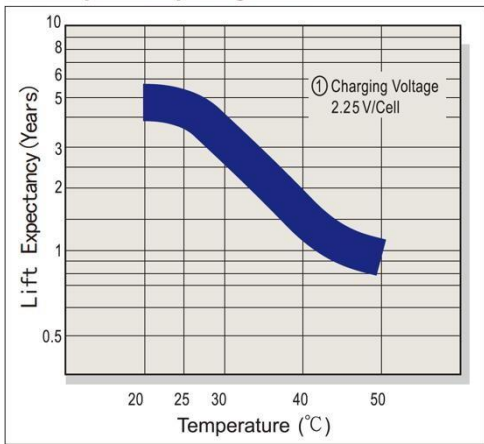
F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h
1.60V	57.2	34.3	28.6	14.3	9.95	6.93	5.72	2.94
1.65V	56.7	33.9	28.3	14.1	9.85	6.86	5.67	2.92
1.7V	56.1	33.6	28.1	14.0	9.75	6.79	5.61	2.89
1.75V	55.6	33.3	27.8	13.9	9.66	6.73	5.56	2.86
1.8V	55.0	33.0	27.5	13.8	9.57	6.66	5.50	2.83
1.85V	53.4	32.0	26.7	13.3	9.28	6.46	5.34	2.74

## Constant Power Discharge Unit:W (25°C,77°F)

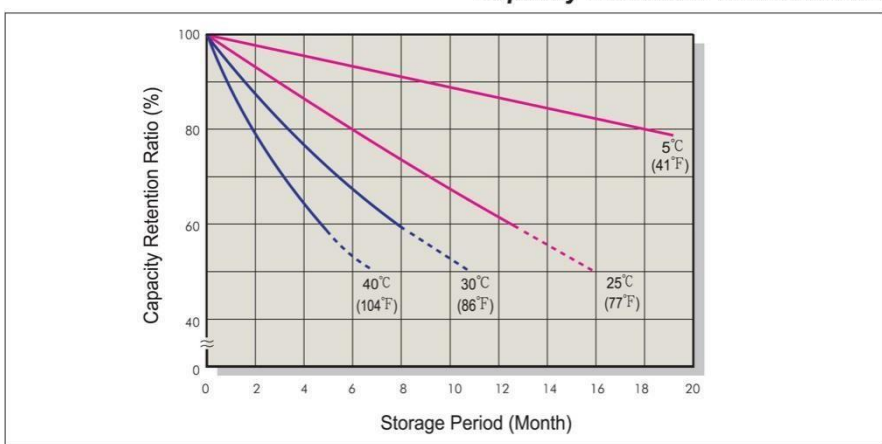
F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h
1.60V	114.4	68.6	57.2	28.6	19.89	13.86	11.44	5.89
1.65V	113.3	67.8	56.7	28.2	19.71	13.71	11.33	5.83
1.7V	112.2	67.3	56.1	28.1	19.51	13.59	11.22	5.78
1.75V	111.1	66.6	55.6	27.7	19.32	13.46	11.11	5.72
1.8V	110.0	66.0	55.0	27.5	19.14	13.33	11.00	5.67
1.85V	106.7	64.0	53.4	26.6	18.55	12.93	10.67	5.48

The data and appearance provided in this article may be revised and changed without prior notice, and no further notice will be given.

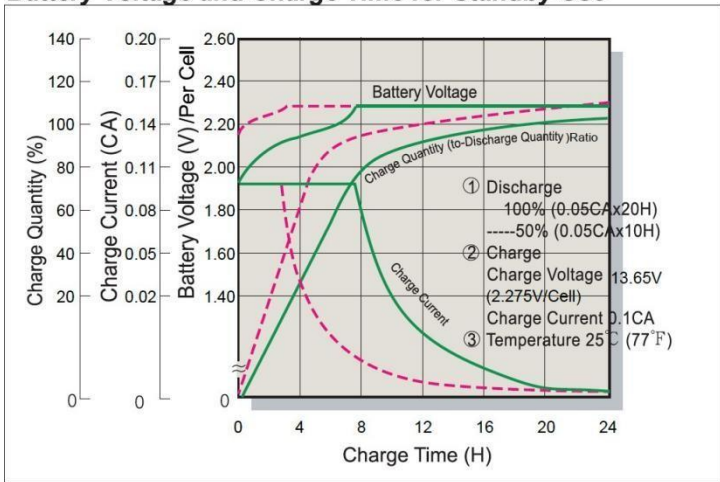
**Trickle(or Float)Design Life**



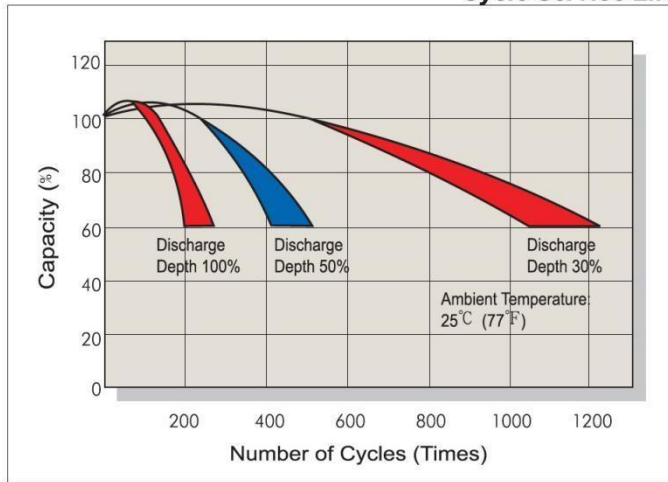
**Capacity Retention Characteristic**



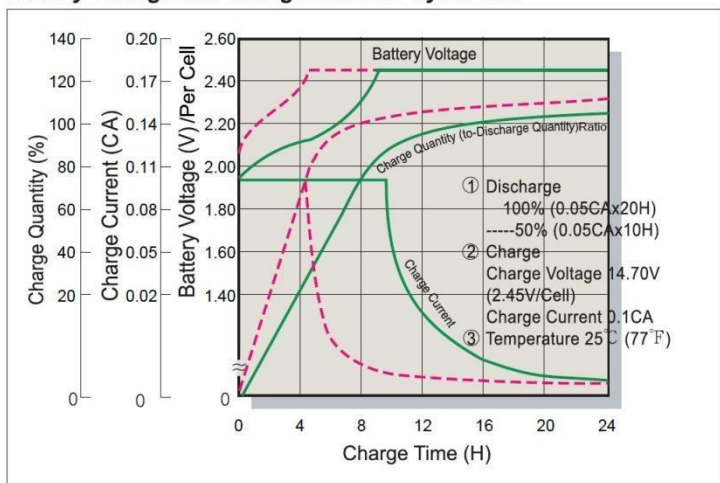
**Battery Voltage and Charge Time for Standby Use**



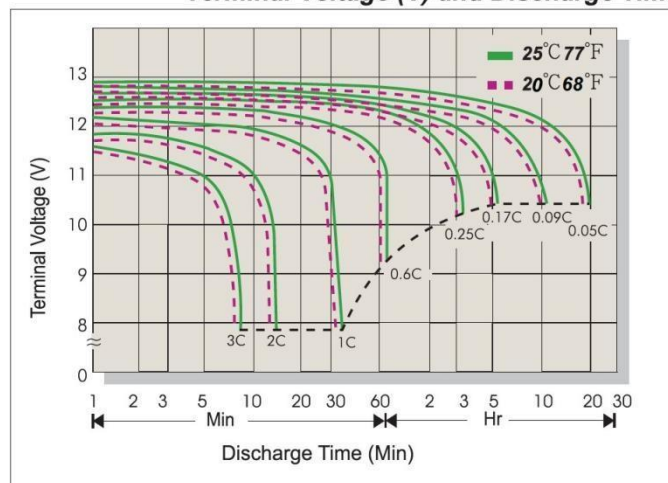
**Cycle Service Life**



**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°C (77°F)	2.45	2.40~2.50	0.3C
Standby	25°C (77°F)	2.275	2.25~2.30	

**Discharge Current VS. Discharge Voltage**

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.6
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	103%
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%