

## Technical Data: AGM160-12

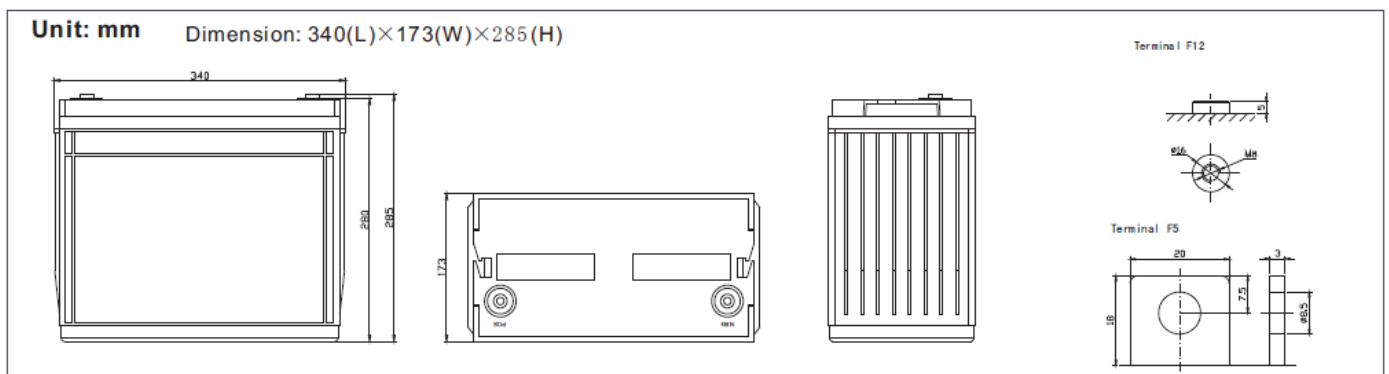


The AGM 160-12 is a general purpose battery with 10 years floating design life, meeting IEC, JIS, BS and Eurobat standards. With heavy duty, grid thickness plates, special additives, this series of batteries have a long life and reliable standby service life.

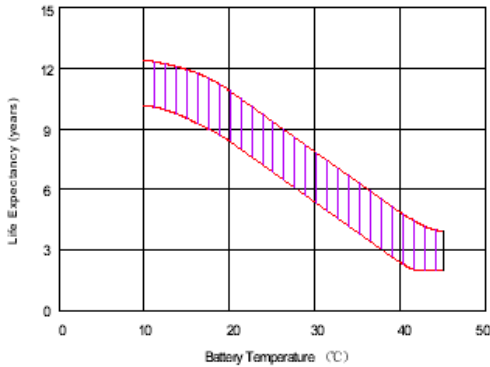
### Specification:

Cells Per unit	6
Voltage per unit	12
Capacity	160Ah@20hr-rate to 1.80V per cell @ 25°C
Weight	Approx. 54.0 Kg
Max. Discharge Current	1640A (5Sec)
Internal Resistance	Approx 4.0mΩ
Operating Temperature range	Discharge: -20°C ~ 60°C Charge: 0°C ~ 50°C Storage: -20°C ~ 60°C
Normal Operating Temp. Range	20°C ± 5°C
Float Charging Voltage	13.6 to 13.8VDC/ unit average at 25°C
Recomm. Max Charging Current	40.2A
Equalization and Cycle Service	14.6 to 14.8VDC/ unit average at 25°C
Self Discharge	Can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge battery before using.
Terminal	Terminal F5/F12
Container Material	A.B.S.(UL94-HB) Flammability resistance of U94-V1.

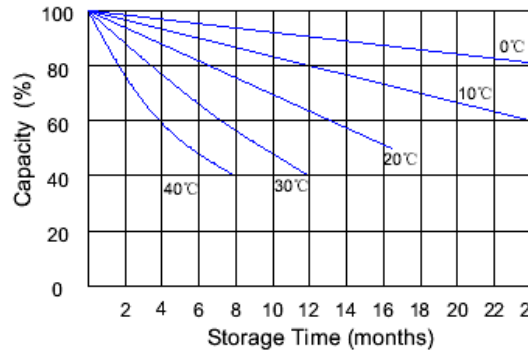
### Dimensions



**Effect of temperature on long term float life**



**Storage characteristic**



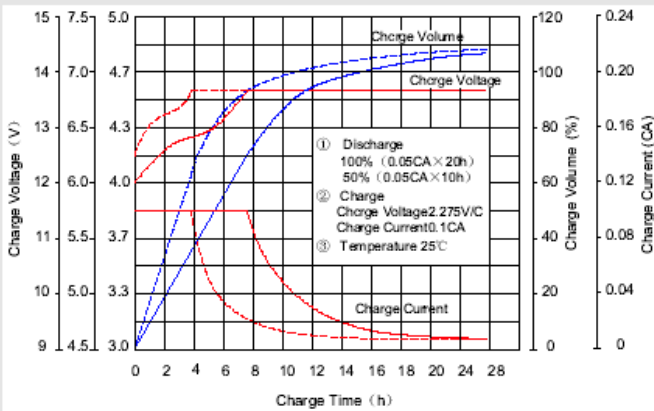
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

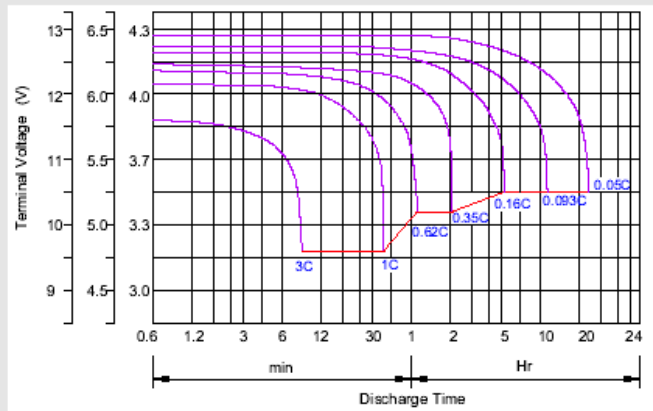
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

**Charge characteristic Curve for standby use**



**Discharge characteristic Curve**



**Constant Current Discharge Characteristics: A (25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	461.7	344.8	290.3	180.3	104.0	62.23	43.01	35.25	28.85	19.87	16.80	9.243
10.0V	448.4	328.1	284.3	177.3	103.5	61.76	42.85	35.09	28.68	19.71	16.64	9.075
10.2V	435.1	316.5	279.8	175.7	102.6	61.29	42.52	34.92	28.51	19.55	16.48	8.907
10.5V	390.7	292.1	266.4	171.3	101.6	60.83	42.35	34.60	28.17	19.39	16.32	8.738
10.8V	352.7	266.3	245.6	163.8	99.20	59.74	41.20	33.78	27.67	19.07	16.16	8.570
11.1V	301.1	238.0	220.3	153.5	94.24	57.08	39.39	32.15	26.48	18.26	15.67	8.066

**Constant Power Discharge Characteristics: W(25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	4776	3672	3193	2055	1202	733.5	511.9	420.2	344.2	237.3	200.8	110.8
10.0V	4682	3560	3142	2030	1199	729.6	512.0	419.7	343.3	236.2	199.6	108.9
10.2V	4628	3466	3106	2015	1190	725.2	509.8	418.7	342.2	234.6	197.8	106.9
10.5V	4214	3227	2963	1969	1179	719.9	507.8	414.8	338.1	232.7	195.8	104.9
10.8V	3838	2975	2739	1887	1157	710.8	494.0	405.4	332.0	228.8	193.9	102.8
11.1V	3371	2690	2465	1772	1108	684.4	472.6	385.8	317.7	219.1	188.1	96.8

**Capacity Factors With Different Temperature**

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

**Discharge Current VS. Discharger Voltage**

Final Discharge Voltage V/Cell	1.75V	1.70V	1.60V