

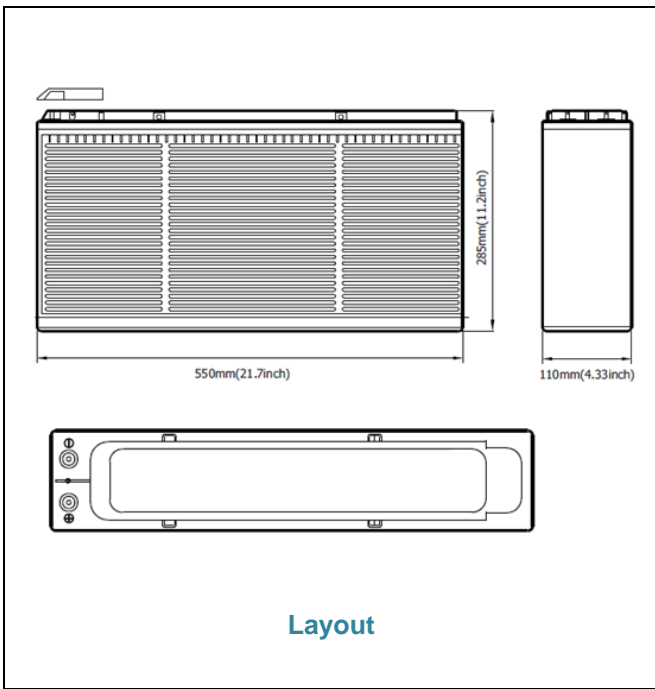
# 12V 150Ah – MBELLO46 - AGM Battery



The battery is a general purpose battery with 10 years expected life under Normal float charge. It is rechargeable, high efficient, leak proof, maintenance free and easy to install and check in use.

## Characteristic

1. Thermally welded case-to-cover bond to ensure a leak-proof case
2. 10 years' design life in float applications @ 20°C
3. Absorbent Glass Mat technology for efficient gas recombination
4. Front accessible terminal for ease of assembly
5. Strengthened rib design to maintain structural integrity
6. Carry handles for ease of installation
7. Can be used in any orientation. Upright mounting recommended
8. Flame-arrestor is installed to ensure safety
9. One-way self-resealing safety valve for long life guarantee
10. Battery design allows for 48VDC configuration in a standard 23" rac



## Performance Characteristics

Nominal Voltage .....	12V
Nominal Capacity 77°F (25°C)	
10-hour rate (15.0A, 10.5V) .....	150Ah
8-hour rate (17.9 A,10.5V) .....	143.2 Ah
1-hour rate (96A, 10.5V) .....	96Ah
Internal Resistance	
Fully Charged battery 77°F (25°C) .....	3.5mOhms
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operation Temperature Range	
Discharge .....	-20~60°C
Charge .....	-10~50°C
Storage .....	-20~50°C
Max. Discharge Current 77°F (25°C) .....	800A(5s)
Short Circuit Current .....	1800A

## Dimensions and Weight (+/- 2mm)

Length (mm / inch).....	550 / 21.7
Width (mm / inch) .....	110 / 4.33
Height (mm / inch) .....	285 / 11.2
Total Height (mm / inch) .....	285 / 11.2
Approx. Weight(Kg / lbs).....	44.0 / 96.8

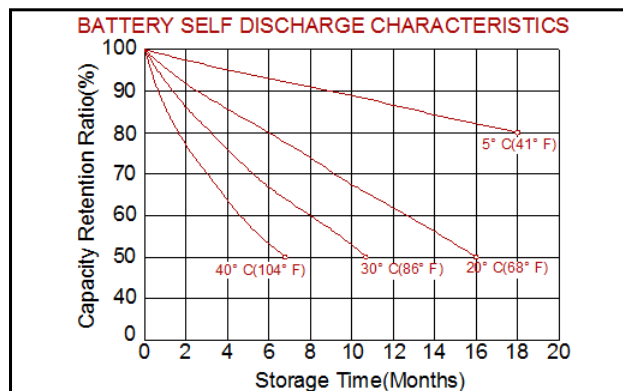
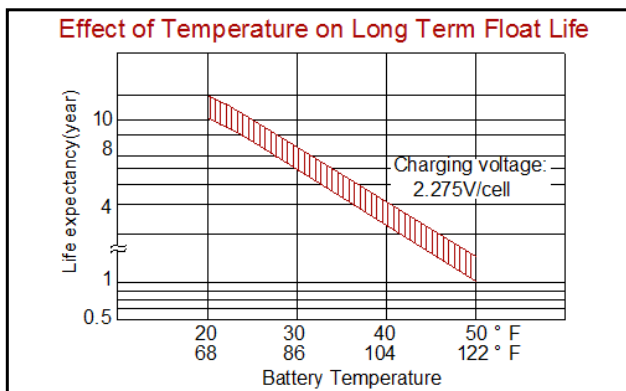
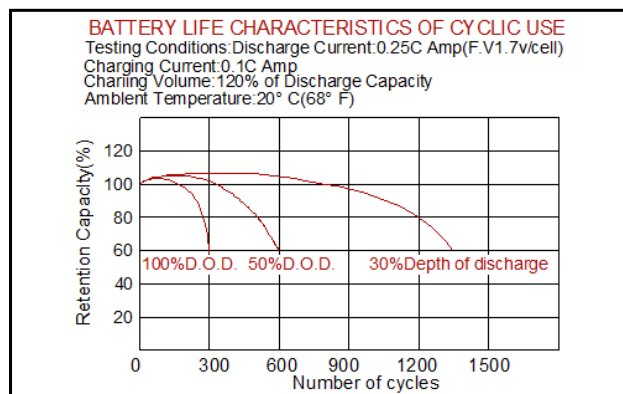
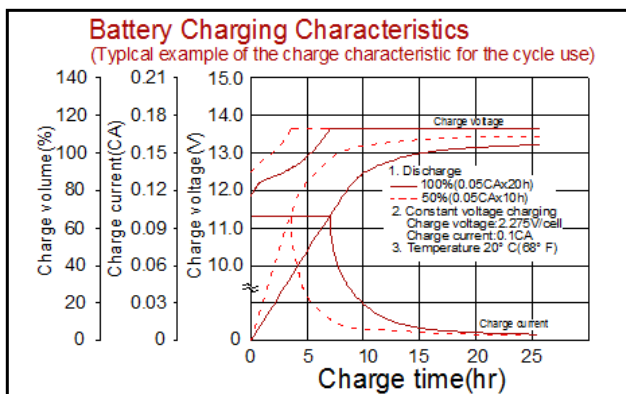
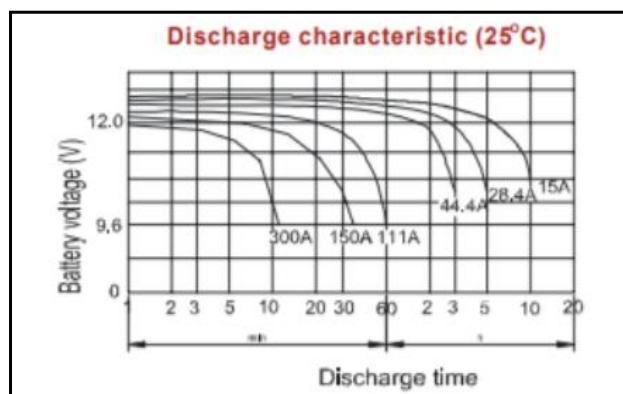
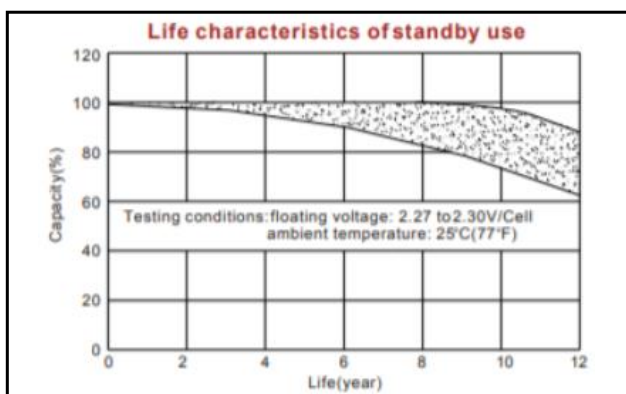
## Battery Construction

COMPONENT	Positive	Negative	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	Fire Retardant ABS	Fire Retardant ABS	Rubber	Copper	Fiberglass	Sulfuric acid

## Charging Methods

Application	Charging method	Charging Voltage at 25° C	Temperature compensation coefficient of charging voltage	Max. charging current	Charging time 25°C(h)		Temp (° C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.6 -13.8V	-20 mV/° C	37.5A	24	20	0~40 (32~104° F)
For cycle service		14.6 -15.0V	-30 mV/° C	37.5A	16	10	

\*Temperature compensation of charging voltage is not needed. When using the batteries within 15° C to 35° C range.



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

F.V / Time	15Min	30Min	1HR	2HR	3HR	4 HR	5 HR	6 HR	7 HR	8 HR	10HR	20HR
10.02V	265	168	98.7	57.3	42.2	34.0	28.3	24.1	21.0	18.6	15.2	7.95
10.20V	254	165	97.7	56.7	41.8	33.6	27.9	23.7	20.7	18.2	15.0	7.86
10.50V	235	157	96.0	55.8	40.6	32.6	26.8	22.8	20.0	17.9	14.6	7.68
10.80V	212	147	91.9	54.3	39.4	31.1	25.9	22.4	19.4	17.2	14.2	7.50
10.98V	193	139	88.2	52.7	37.9	30.2	19.5	21.7	18.9	16.7	13.7	7.33
11.10V	181	134	85.1	51.5	37.1	29.5	24.6	21.2	18.5	16.5	13.5	7.14
11.40V	150	112	73.5	45.8	33.8	26.8	22.4	19.0	16.7	15.0	12.4	6.61

**Constant Power Discharge Characteristics Unit: Watt(25°C,77°F)**

F.V / Time	15Min	30Min	1HR	2HR	3HR	4 HR	5 HR	6 HR	7 HR	8 HR	10HR	20HR
10.02V	2813	1817	1080	636	473	383	318	272	237	210	171	90.1
10.20V	2718	1797	1080	634	471	380	316	270	236	207	171	89.9
10.50V	2565	1739	1077	633	465	375	309	264	231	206	169	89.0
10.80V	2353	1657	1047	626	457	361	301	261	226	201	166	88.0
10.98V	2169	1575	1016	615	444	354	296	255	222	196	163	86.6
11.10V	2057	1524	986	603	435	348	290	251	219	195	161	84.9
11.40V	1725	1305	864	544	403	320	267	228	201	180	149	79.5



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