

12V 7Ah - MBESL102 - AGM Battery

BRAGAMORO



The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass mat separator and plates the battery can use in any direction and position without leakage.

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Life (Year)	5 years
Nominal Capacity 77°F(25°C)	
20-hour rate(0.35A,10.5V)	7.0Ah
10-hour rate (0.65A, 10.5V)	6.5Ah
5-hour rate (1.19 A,10.5V)	5.95Ah
1-hour rate(4.55A,9.6V)	4.55Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	40 mΩ
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25°C)	105A(5s)
Short Circuit Current	420A

Layout

Dimensions and Weight (+/- 2mm)

Length (mm / inch)	151 / 5.94
Width (mm / inch)	65 / 2.56
Height (mm / inch)	94 / 3.70
Total Height (mm / inch)	99 / 3.90
Approx. Weight (Kg / lbs)	2.00 / 4.00

Discharge Constant Current (Amperes at 77°F25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	24.5	19.6	14.0	8.05	5.74	4.55	2.45	1.77	1.20	0.79	0.66	0.36
9.90V	23.8	18.9	13.3	7.91	5.67	4.52	2.43	1.76	1.20	0.79	0.66	0.36
10.20V	22.4	17.5	12.6	7.70	5.60	4.48	2.42	1.75	1.19	0.78	0.65	0.35
10.50V	19.6	14.7	11.9	7.28	5.53	4.41	2.38	1.73	1.19	0.78	0.65	0.35
10.80V	17.5	12.6	11.2	6.30	5.46	4.34	2.31	1.68	1.18	0.78	0.64	0.34

Discharge Constant Power (Watts at 77°F25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	268	215	155	93.6	65.4	52.5	28.2	20.5	13.9	9.18	7.68	4.20
9.90V	257	206	146	90.6	64.8	51.7	28.1	20.4	13.9	9.18	7.62	4.20
10.20V	244	194	139	86.4	63.6	51.7	27.8	20.3	13.8	9.18	7.62	4.14
10.50V	214	163	131	81.0	63.0	50.8	27.4	20.0	13.8	9.06	7.56	4.08
10.80V	191	147	124	70.2	62.4	50.0	26.6	19.4	13.7	9.06	7.44	4.02



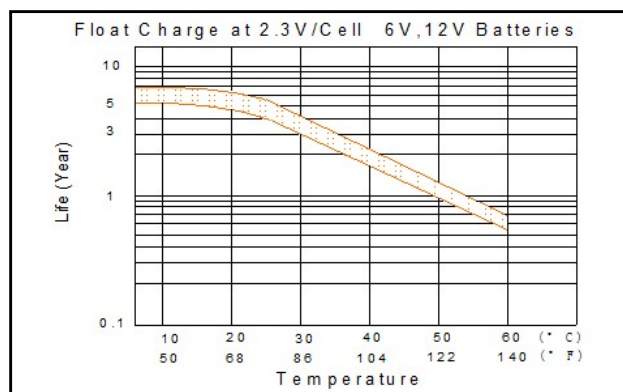
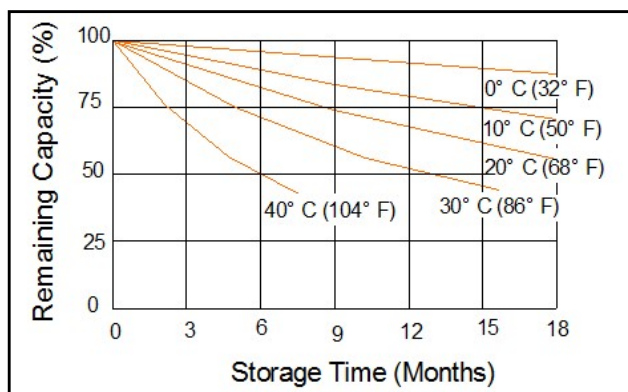
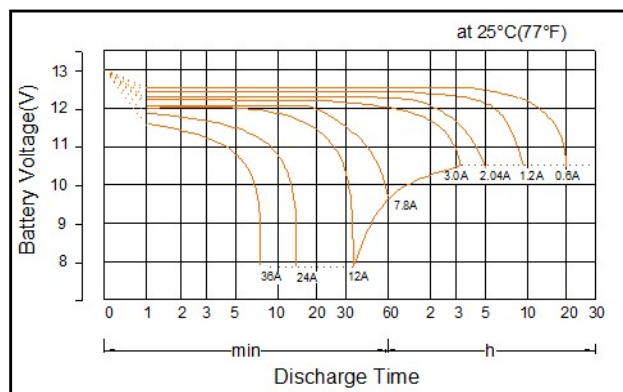
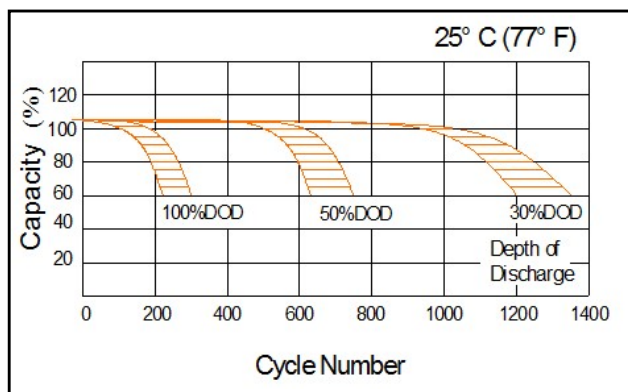
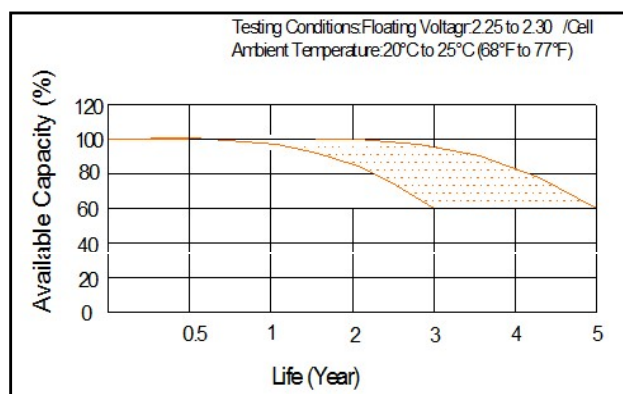
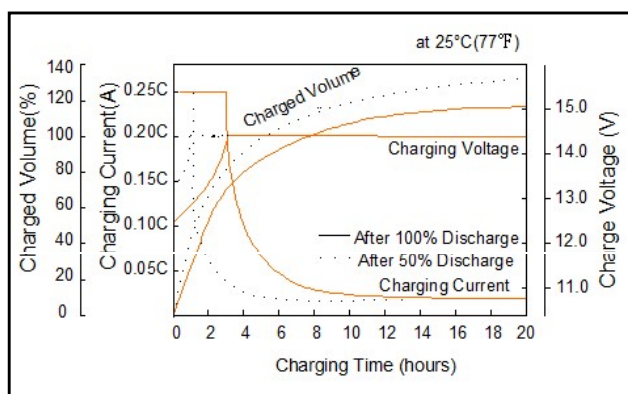
Battery Construction

COMPONENT	Positive	Negative	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	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	13.4-13.8V	-20 mV/°C	2.1A	24	20	0~40 (32~104°F)
For cycle service	Current Charging (with current restriction)	14.5-15.0V	-30 mV/°C	2.1A	16	10	

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



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