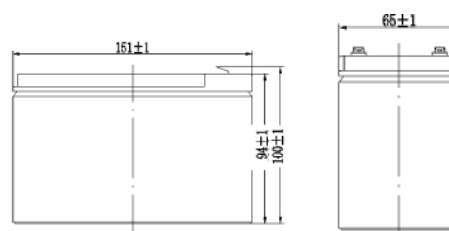
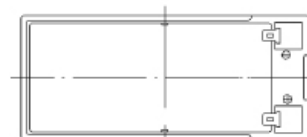
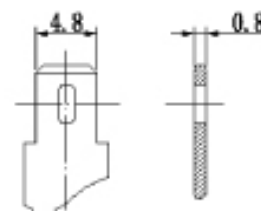


MB7Ah-12V

MasterBat

VALVE REGULATED LEAD-ACID BATTERY



MB series

MB Series Valve Regulated Lead Acid batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the field of UPS, Emergency Lighting System.

General Features

- Sealed and maintenance free operation
- Non-Spillable construction design
- ABS containers and cover (UL94HB, UL94V-0) optional
- Safety valve installation for explosion proof
- High quality and high reliability
- Exceptional deep discharge recovery performance
- Low self discharge characteristic
- Flexibility design for multiple install positions

Application

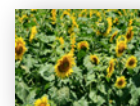
- Medical Equipmen
- UPS
- Communication Equipment
- Control Equipment
- Toys
- Alarm System
- Cable Television
- Power tools
- Emergency Power System
- Security System

Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Constant current discharge ratings-amperes at 25 °C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	24.9	17.4	13.3	7.47	4.60	1.93	1.26	0.718	0.368
1.65V	23.6	16.6	12.6	7.17	4.52	1.87	1.23	0.705	0.359
1.70V	22.2	15.7	12.0	6.86	4.40	1.80	1.19	0.691	0.355
1.75V	20.8	14.8	11.3	6.52	4.22	1.73	1.16	0.683	0.350
1.80V	19.4	14.0	10.7	6.19	4.01	1.65	1.12	0.669	0.344



Constant power discharge ratings-watts at °C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.0	32.2	24.7	14.0	8.65	3.65	2.39	1.37	0.71
1.65V	43.5	30.6	23.3	13.3	8.44	3.51	2.32	1.34	0.69
1.70V	40.7	28.8	22.0	12.7	8.19	3.37	2.24	1.31	0.67
1.75V	37.9	26.9	20.7	12.0	7.80	3.21	2.16	1.28	0.66
1.80V	35.0	25.2	19.3	11.3	7.34	3.03	2.07	1.24	0.64

Technology Parameter

Battery model	MB7-12V7Ah			
Designed Floating Life	3~5 Years			
Capacity (25°C)	20hR(0.35A, 10.5V)	10hR(0.683A, 10.5V)	5hR(1.16A, 10.5V)	1hR(4.6A, 9.60V)
	7.0Ah	6.83Ah	5.8Ah	4.6Ah
Dimensions	Length	Width	Height	Total Height
	151±1mm	65±1mm	94±1mm	100±1mm
Approx. weight (±5%)	2.25Kg (4.96 lbs)			
Internal resistance	Full charged at 25°C Approx. 25mOhms			
Self discharge	3% of capacity declined per month at 25°C(average)			
Capacity Affected by Temp.(20HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.4-15.0V(-15mV/°C, max. Current: 2.10 A)		13.5-13.8V(-10mV/°C)	

