



MBH Series

MBH 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	330	250	190	115	68.5	28.9	18.9	10.3	5.35
1.65V	314	239	181	112	65.9	28.0	18.4	10.2	5.31
1.70V	295	225	172	110	63.4	27.1	17.9	10.1	5.27
1.75V	277	212	162	108	60.9	25.9	17.3	10.0	5.23
1.80V	258	201	153	106	58.4	24.7	16.8	10.0	5.19



Constant power ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	582	442	338	205	123	52.4	34.4	18.8	9.84
1.65V	556	425	324	202	119	51.0	33.6	18.8	9.82
1.70V	526	403	309	200	115	49.5	32.8	18.7	9.80
1.75V	495	381	294	197	111	47.7	32.1	18.6	9.78
1.80V	465	363	278	194	107	45.8	31.3	18.6	9.76

Technology Parameter

Battery model	MBH100Ah-12V			
Designed Floating Life	8-10 Years			
Capacity (25°C)	10hR(10.0A, 10.8V)	5hR(17.3A, 10.5V)	1hR(68.5A, 9.60V)	
	100Ah	86.5Ah	68.5Ah	
Dimensions	Length	Width	Height	Total Height
	306±2mm	169±2mm	211±2mm	214.5±2mm
Approx. weight (±5%)	27Kg (59.60lbs)			
Internal resistance	Full charged at 25°C: Approx. 8mOhms			
Self discharge	3% of capacity declined per month at 25°C (average)			
Capacity Affected by Temp.(10HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.4-14.7V(-30mV/°C), max. Current: 25A		13.5-13.8V(-20mV/°C)	

