



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	50.16	35.32	26.98	14.95	8.76	3.68	2.33	1.32	0.67
1.65V	48.21	34.02	26.22	14.41	8.34	3.56	2.30	1.29	0.67
1.70V	45.39	32.72	25.57	13.87	7.94	3.45	2.26	1.26	0.66
1.75V	42.58	31.42	24.59	13.33	7.54	3.30	2.23	1.24	0.65
1.80V	39.87	30.12	23.83	12.78	7.38	3.15	2.19	1.20	0.64



Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	92.84	65.43	50.27	27.95	16.47	6.97	4.42	2.51	1.29
1.65V	88.62	62.62	48.53	26.76	15.60	6.71	4.33	2.45	1.28
1.70V	83.09	59.91	47.13	25.57	14.73	6.45	4.25	2.38	1.26
1.75V	77.57	57.20	45.07	24.48	13.98	6.14	4.17	2.32	1.22
1.80V	71.72	54.17	43.12	23.18	13.54	5.80	4.05	2.24	1.19

Technology Parameter

Battery model	MBH13Ah-12V			
Designed Floating Life	5~8 Years			
Capacity (25°C)	20hR(0.65A, 10.5V)	10hR(1.24A, 10.5V)	5hR(2.23A, 10.5V)	1hR(8.76A, 9.60V)
	13.0Ah	1.24Ah	11.15Ah	8.76Ah
Dimensions	Length	Width	Height	Total Height
	151±1mm	98±1mm	95±1mm	101±1mm
Approx. weight (±5%)	3.85Kg (8.47 lbs)			
Internal resistance	Full charged at 25°C: Approx . 17 mOhms			
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: 3.60 A		13.5-13.8V(-10mV/°C)	

