



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

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
1.60V	139.70	105.60	80.30	48.40	28.93	12.47	7.99	4.55
1.65V	132.73	100.83	76.27	47.30	27.87	12.06	7.77	4.47
1.70V	124.67	94.97	72.60	46.57	26.80	11.66	7.55	4.44
1.75V	116.97	89.47	68.57	45.83	25.74	11.15	7.33	4.40
1.80V	108.90	84.70	64.53	44.73	24.68	10.67	7.11	4.40

Application

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



Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h
1.60V	245.67	186.63	143.00	86.53	52.07	22.55	14.52	8.29
1.65V	234.67	179.30	136.77	85.43	50.60	21.96	14.19	8.25
1.70V	222.20	170.13	130.53	84.33	48.77	21.34	13.86	8.25
1.75V	209.37	160.97	123.93	83.23	46.93	20.53	13.53	8.18
1.80V	196.17	153.27	117.70	81.77	45.47	19.73	13.20	8.18

Technology Parameter

Battery model	MBH44Ah-12V			
Designed Floating Life	8~10 Years			
Capacity (25°C)	10hR(4.4A,10.8V)	5hR(7.26A,10.5V)	1hR(27.57A,9.60V)	
	44Ah	36.32Ah	27.57Ah	
Dimensions	Length	Width	Height	Total Height
	197±2mm	165±2mm	170±2mm	170±2mm
Approx. weight (±5%)	14.1 Kg (31.1 lbs)			
Internal resistance	Full charged at 25°C: Approx. 8.5mOhms			
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: 11.0 A		13.5-13.8V (-10mV/°C)	

