

BM Battery Shelf & Module System

BM Series Battery Module with BMS Shelf is an all-in-one, easy-to-assemble, 2RU, plug-and-play, reserve power system that accommodates two 48, 24 or 12 VDC battery modules. (The shelf and modules are sold separately.) No need for sourcing and installing separate batteries, battery trays, interconnect cable, terminals, or lugs.

The battery modules slide easily into the shelf and are secured in place with rear retaining pin and front panel latch. Plug-in connector assemblies provide for quick connection system load and/or paralleling multiple Battery Modules to meet higher run time requirements.



BM Series Battery Module internal batteries are sealed, maintenance-free, and easily replaced after a typical life of 3-5 years (standby). The input/output connectors are keyed to prevent reverse polarity hook-ups. A battery on-line circuit breaker / switch protects against overload and enables selective individual module load testing without interrupting continuity of the overall battery string.

Mounting brackets provided adapt for both 19" and 23" racks, 6" forward mount configuration. Flush (cabinet) shelf mounting and "universal" mounting of individual modules are available as options.

Product Features

- **Battery Modules**
 - ▶ Slide easily into shelf and plug quickly into DC power system
- **Modules & Shelf**
 - ▶ Fit together in low profile design only 2RU (3.5")
- **Internal Batteries**
 - ▶ Sealed, maintenance-free and are IATA and DOT certified for shipment by air.
- **Plug-In Polarized Connector Assemblies**
 - ▶ Enable quick, easy, plug-and-play installation and eliminate the danger of reverse polarity connections
- **Multiple BM/BMS Systems**
 - ▶ May be paralleled for increased reserve capacity
- **19"/23" Rack Mounting Brackets**
 - ▶ Provided for 6" forward mount configuration. Additional brackets are available for cabinet mount, or table-top/undershelf/wall mount of individual modules without shelf assembly
- **Battery On-Line/Off-Line Switch Breaker**
 - ▶ Controls output and provides overload protection

Model Selection Guide

Model	Voltage (Nominal/Float)	Reserve Capacity	Circuit Breaker Protection	Dimensions (H x W x D) (inches)	Weight (lbs)
BM 48-4	-48 / -54.4	4 Amp-Hours	15 Amp	3.4 x 7.4 x 18.8	20
BM 24-8	+24 / +27.2	8 Amp-Hours	30 Amp	3.4 x 7.4 x 18.8	20
BM 12-16	+12 / +13.6	16 Amp-Hours	50 Amp	3.4 x 7.4 x 18.8	20
BMS 19/23	Rackmount shelf accommodates 1 or 2 Battery Modules			3.5 x 19/23 x 18.2	5

Battery Runtime

Run Time	Number of Battery Modules					
	1	2	3	4	5	6
48 Volt System						
5 min	11.6	23.2	34.8	46.4	N/R	N/R
15 min	6.4	12.8	19.2	25.6	32.0	38.4
30 min	4.0	8.0	12.0	16.0	20.0	24.0
1 hour	2.2	4.4	6.6	8.8	11.0	13.2
2 hours	1.4	2.8	4.2	5.6	7.0	8.4
4 hours	0.8	1.6	2.4	3.2	4.0	4.8
8 hours	0.5	1.0	1.4	1.9	2.4	2.9
12 hours	0.3	0.6	1.0	1.3	1.6	1.9
24 Volt System						
5 min	23.2	46.4	N/R	N/R	N/R	N/R
15 min	12.8	25.6	38.4	50 max	N/R	N/R
30 min	8.0	16.0	24.0	32.0	48.0	N/R
1 hour	4.4	8.8	13.2	17.6	22.0	26.4
2 hours	2.8	5.6	8.4	11.2	14.0	16.8
4 hours	1.6	3.2	4.8	6.4	8.0	9.6
8 hours	1.0	1.9	2.9	3.8	4.8	5.8
12 hours	0.6	1.3	1.9	2.5	3.2	3.8
12 Volt System						
5 min	48.0	N/R	N/R	N/R	N/R	N/R
15 min	25.2	50 max	N/R	N/R	N/R	N/R
30 min	16.0	32.0	48.0	N/R	N/R	N/R
1 hour	9.6	19.2	28.8	38.4	48.0	N/R
2 hours	5.6	11.2	16.8	22.4	28.0	33.6
4 hours	3.0	6.0	9.0	12.0	15.0	18.0
8 hours	1.9	3.8	5.8	7.7	9.6	11.5
12 hours	1.0	1.9	2.9	3.8	4.8	5.7