

MESA ENERGY BLOCK HR

Vented Lead-Acid Flat Pasted-Plate Battery

For Utility, Industrial, and Communications Applications

MEB-HR

Product Features & Customer Benefits

Flat, Pasted Plate Design

- Excellent high rate performance
- Twenty-year design life
- Space saving footprint
- Ideal for substation loads

Robust & Compact

- Lead selenium alloy is corrosion resistant and reduces plate growth
- Impact resistant SAN jars
- Leak proof, tongue-in-groove jar-cover seals minimizes seal failures and container/cover cracks
- O-ring compression seals reduce leaks, connection corrosion, and mechanical failures
- Reduced maintenance & reduced footprint

Clear Jars

- Provides crystal clear viewing of the cell plates, bridges and electrolyte

Optimized Connector System

- Fully insulated connector with test points for ohmic and voltage measurements
- Reduces terminal connection maintenance

Test Individual Cells

- External welded connections between individual cells allow for testing individual cell voltages, internal resistance or conductance, and monitoring individual cells during load testing

Applications

- Utility switchgear
- Telecommunications
- UPS units



The MESA Energy Block HR range consists of 6 volt block batteries, with 20-year design life plates, made of .25" thick, lead-selenium alloy. They are ideal for use in switchgear applications characterized by switching DC Loads and high rate demands. Low maintenance, reduced footprint, and safety by design are essential features of the Mesa Energy Block. No other flat plate, lead-selenium battery has thicker plates or longer lasting cells.

Specifications

- Float Voltage: 2.22 to 2.23 vpc
- Equalize Voltage: 2.33 to 2.35 vpc
- Specific Gravity: 1.240 kg/L @ 77 F
- Jar and Cover Materials: Styrene Acrylonitrile (SAN) Plastic (Flame Retardant UL V0 94 covers available)
- Standard Accessories
 - Battery inter-cell and inter-row connections
 - Terminal hardware
 - Hydrometer with holder and drip cup
 - Vent mounted thermometer
 - Cell numbers
 - Lifting strap
 - Flame arresting vent caps
 - No-ox or similar grease
 - Installation and operating instructions /drawings

- Connectors: Insulated copper bar
- Connection Hardware: Stainless Steel
- Post Terminal: M10 threaded copper insert



MESA
TECHNICAL ASSOCIATES, INC.

Capacities, Dimensions, and Weights

Block Type/ Order No.	1 Min. Rate to 1.75 vpc (amps)	Nominal 8- hr Ah Cap. at 77°F to	Internal Res. (mOhms)	Short Circuit (KA)	Block Weight Filled (lbs)	Volume of Acid Per Cell (gal.)	Length (in.)	Width (in.)	Height (in.)	No. of Cells/ Vent Openings
MEB_HR 6-100	168	103	5.78	1.05	85.8	2.80	10.7	8.1	15.1	3/3
MEB_HR 6-150	252	154	3.16	1.92	95.5	2.56	10.7	8.1	15.1	3/3
MEB_HR 6-200	336	206	2.37	2.56	127.6	3.94	15.0	8.1	15.1	3/3
MEB_HR 6-250	420	254	1.90	3.20	137.5	3.38	15.0	8.1	15.1	3/3
MEB_HR 6-300	504	285	1.59	3.84	150.7	3.20	15.0	8.1	15.1	3/3

Discharge Current (A) to 1.75 Vpc at 25°C / 77°F

Block Type	Minutes								Hours					
	1	5	7	10	12	15	20	30	1	2	3	8	10	24
MEB_HR 6-100	168	148	140	128	121	112	101	83	56	35	27	13	11	6
MEB_HR 6-150	252	222	210	192	182	168	151	124	83	53	40	19	16	9
MEB_HR 6-200	336	297	279	256	242	224	201	166	111	70	53	26	22	11
MEB_HR 6-250	420	371	349	320	303	280	252	207	139	86	66	32	27	14
MEB_HR 6-300	504	445	419	383	364	337	302	249	167	105	80	36	33	17

Discharge Current (A) to 1.85 Vpc at 25°C / 77°F

Block Type	Minutes								Hours					
	1	5	7	10	12	15	20	30	1	2	3	8	10	24
MEB_HR 6-100	106	97	93	87	84	79	73	63	45	30	23	12	10	5
MEB_HR 6-150	159	146	140	131	126	119	109	94	68	45	35	18	15	8
MEB_HR 6-200	212	194	186	175	168	158	145	126	90	60	47	24	21	10
MEB_HR 6-250	265	243	233	218	210	198	182	157	113	75	59	30	26	13
MEB_HR 6-300	318	291	280	262	252	238	218	189	135	90	70	36	31	16

Discharge Current (A) to 1.95 Vpc at 25°C / 77°F

Block Type	Minutes								Hours					
	1	5	7	10	12	15	20	30	1	2	3	8	10	24
MEB_HR 6-100	51	49	48	46	45	44	42	37	29	20	16	9	8	4
MEB_HR 6-150	77	74	72	70	68	66	62	56	43	31	24	14	12	6
MEB_HR 6-200	103	99	96	93	91	88	83	75	57	41	33	18	16	8
MEB_HR 6-250	128	123	120	116	113	110	104	94	72	51	41	23	20	10
MEB_HR 6-300	154	148	144	139	136	132	125	112	86	61	49	27	24	13