

Mining Locomotive Batteries IN BS & DIN types

MICROTEX
Since 1969

CAPACITIES FROM 110 To 1550 Ampere-Hours



Microtex is a leading manufacturer of Industrial Batteries in Bangalore, India. The factory has a covered area of 26,700 Sq ft on 5 acres of land, with 300 committed people. Established 1969, it is a company well known for its high quality. Microtex produces in house, the specially designed lead alloys, lead oxides, grid castings, pasted plates, injection molded containers, multi-tubular gauntlets, PVC separators and produces the complete battery using state of the art industry standard battery making machinery.

MICROTEX Mining Locomotive Batteries are made of Bolt-On type 2 Volts ranging from 110Ah to 1550Ah. Each cell assembled in FR grade container, containing Microtex high performance tubular positive plates in premium Energy Bags Acrylic Tubular gauntlets, pasted negative plates manufactured under exacting control to withstand rough handling and electrically separated by high quality PE Separators

Mining Cell Design Features:

Positive Plates

Tubular Positive plate design manufactured from inhouse woven tubular Gauntlets.
Optimized corrosion resistant antimony lead alloy reducing hydrogen evolution in plate grids

Negative Plates

Pasted negative plates of grid design
Paste mixture that ensures high adherence and cohesion
Optimized corrosion resistant antimony alloy in the plate grids
Robust construction with long-life, balanced performance expanders

Pole and Plate Bridge

Welding with high quality alloy
Optimized design

Separators

Imported PE Separators- Wrap around Sleeved type
Allow migration of ions during charge/discharge cycles
Specially designed separators for fore acid in the surrounding area of the plates

Container / Lid

FR grade PPCP Material (Flame retardant Poly Propylene Co-polymer)
Sealing between container –Hermitically Heat Sealed

Cell Vent Plug

Flip Top type

Poles

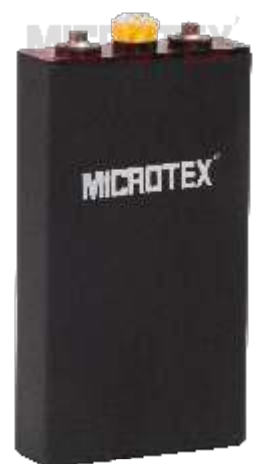
High quality alloy poles and Corrosion resistance

Pole Insert

Tin Plated Copper insert
Bolted M10 terminal posts

Cell Intercell Connectors

High Quality Flexible Copper cable



MICROTEX Mining Locomotive Batteries are low maintenance batteries.

The low antimony content in the grid alloy ensures low gassing
Water loss and maintenance is minimum
Corrosion is negligible
Very low self-discharge and internal resistance
Excellent reserve capacity.
Delivers consistent reliable power
Lasts Longer
Suitable for all weather conditions and Long-life Cycle.

Batteries comply with IS 5154 (Part 1) 2013, IEC 60254 -1:2005, IEC 254-2, EN 60 254-2

The company is ISO 9001:2015 and ISO 14001:2015 Certified

DETAILS OF BS SPECIFICATION MINING CELLS (WIDTH 158 MM)

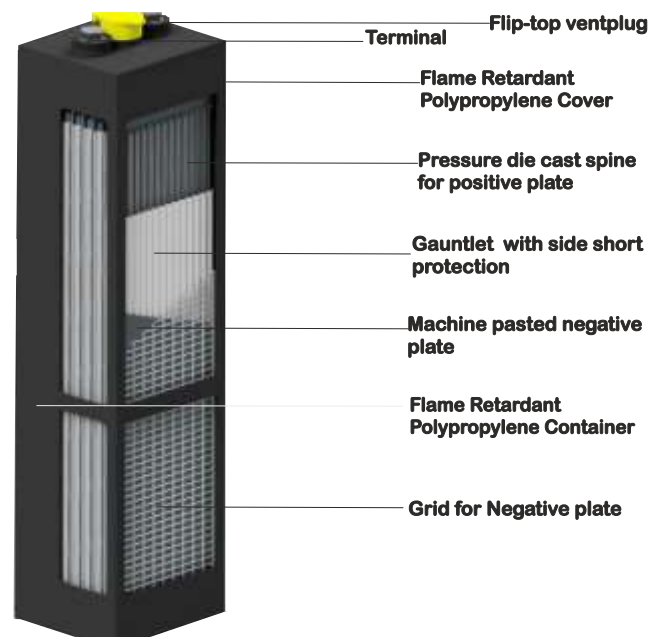
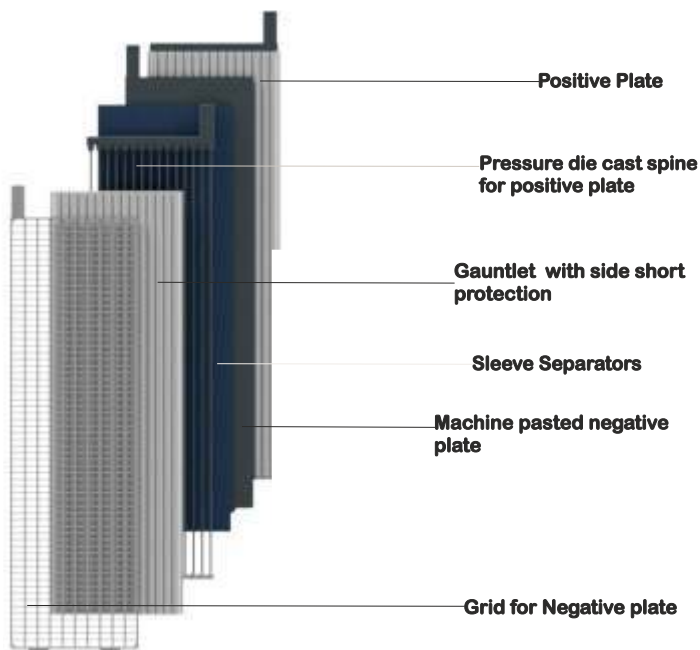
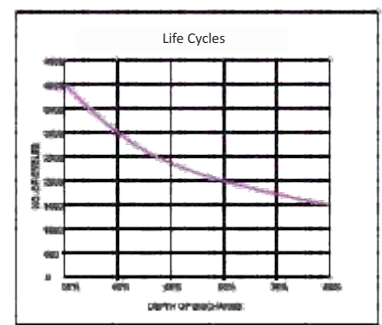
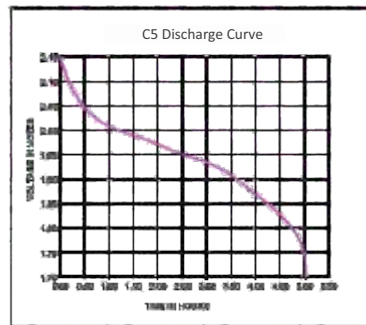
Cell type	Ah@C ₅ at 30 Deg C	Length (mm)	Dry weight (Kg.)	Acid Volume (Ltr.)	Filled Weight (Kg.)	Cell type	Ah@C ₅ at 30 Deg C	Length (mm)	Dry weight (Kg.)	Acid Volume (Ltr.)	Filled Weight (Kg.)
Positive Plate Capacity 55 Ah. Overall Height 431mm, Height upto Lid Top 401 mm						Positive Plate Capacity 65 Ah. Overall Height 483mm, Height upto Lid Top 453 mm					
2MIPzB 110	110	45	6	1.6	8.0	2MIPzB 130	130	45	6.8	1.8	9.1
3MIPzB 165	165	61	8.4	2.2	11.2	3MIPzB 195	195	61	9.7	2.4	12.8
4MIPzB 220	220	77	10.9	2.8	14.5	4MIPzB 260	260	77	12.5	3.1	16.5
5MIPzB 275	275	93	13.3	3.4	17.6	5MIPzB 325	325	93	15.3	3.7	20.1
6MIPzB 330	330	109	15.8	4.0	21.0	6MIPzB 390	390	109	18.2	4.5	24.0
7MIPzB 385	385	125	18.2	4.6	24.1	7MIPzB 455	455	125	21.0	5.1	27.6
8MIPzB 440	440	141	20.7	5.3	27.5	8MIPzB 520	520	141	23.9	5.9	31.5
9MIPzB 495	495	157	23.7	5.9	31.2	9MIPzB 585	585	157	27.3	6.5	35.7
10MIPzB 550	550	173	26.1	6.5	34.5	10MIPzB 650	650	173	30	7.2	39.3
11MIPzB 605	605	189	28.6	7.1	37.8	11MIPzB 715	715	189	33	7.9	43.2
12MIPzB 660	660	205	31.1	7.7	41.0	12MIPzB 780	780	205	35.8	8.6	46.8
13MIPzB 715	715	221	33.5	8.3	44.2	13MIPzB 845	845	221	38.6	9.2	50.5
Positive Plate Capacity 75 Ah. Overall Height 543mm, Height upto Lid Top 513 mm						Positive Plate Capacity 86 Ah. Overall Height 597mm, Height upto Lid Top 567 mm					
2MIPzB 150	150	45	7.7	2.0	10.2	2MIPzB 172	172	45	8.7	2.2	11.5
3MIPzB 225	225	61	10.9	2.7	14.4	3MIPzB 258	258	61	12.4	3.0	16.3
4MIPzB 300	300	77	14.2	3.5	18.7	4MIPzB 344	344	77	16.1	3.9	21.1
5MIPzB 375	375	93	17.4	4.2	22.8	5MIPzB 430	430	93	19.8	4.7	25.8
6MIPzB 450	450	109	20.6	5.0	27.0	6MIPzB 516	516	109	23.5	5.6	30.7
7MIPzB 525	525	125	23.8	5.7	31.2	7MIPzB 602	602	125	27.2	6.4	35.5
8MIPzB 600	600	141	27.1	6.5	35.5	8MIPzB 688	688	141	30.9	7.3	40.4
9MIPzB 675	675	157	30.9	7.2	40.3	9MIPzB 774	774	157	35.2	8.1	45.7
10MIPzB 750	750	173	34	8.0	44.3	10MIPzB 860	860	173	38.8	9.0	50.4
11MIPzB 825	825	189	37.4	8.8	48.7	11MIPzB 946	946	189	42.6	9.9	55.3
12MIPzB 900	900	205	40.6	9.5	52.9	12MIPzB 1032	1032	205	46.3	10.7	60.1
13MIPzB 975	975	221	43.8	10.3	57.0	13MIPzB 1118	1118	221	50	11.5	64.9
Positive Plate Capacity 100 Ah. Overall Height 630mm, Height upto Lid Top 600 mm						Positive Plate Capacity 108 Ah. Overall Height 716mm, Height upto Lid Top 686 mm					
2MIPzB 200	200	45	9.6	2.4	12.7	2MIPzB 216	216	45	10.6	2.6	14.0
3MIPzB 300	300	61	13.7	3.3	17.9	3MIPzB 324	324	61	15.2	3.6	19.9
4MIPzB 400	400	77	17.8	4.2	23.2	4MIPzB 432	432	77	19.8	4.7	25.8
5MIPzB 500	500	93	21.9	5.0	28.4	5MIPzB 540	540	93	24.3	5.6	31.5
6MIPzB 600	600	109	26	6.0	33.8	6MIPzB 648	648	109	28.9	6.7	37.5
7MIPzB 700	700	125	30.1	6.9	39.0	7MIPzB 756	756	125	33.5	7.6	43.4
8MIPzB 800	800	141	34.3	7.9	44.5	8MIPzB 864	864	141	38.1	8.8	49.4
9MIPzB 900	900	157	38.9	8.8	50.2	9MIPzB 972	972	157	43.3	9.7	55.8
10MIPzB 1000	1000	173	42.9	9.7	55.4	10MIPzB 1080	1080	173	47.7	10.7	61.5
11MIPzB 1100	1100	189	47.2	10.6	60.9	11MIPzB 1188	1188	189	52.5	11.8	67.7
12MIPzB 1200	1200	205	51.2	11.5	66.0	12MIPzB 1296	1296	205	57	12.8	73.5
13MIPzB 1300	1300	221	55.4	12.4	71.4	13MIPzB 1404	1404	221	61.6	13.7	79.3

Dry weight, Filled weight and acid volume can be within 5% of the nominal value Height of traction cells can be within +/-2mm Length and Width can be vary within +/-1mm

DETAILS OF DIN SPECIFICATION MINING LOCO CELLS (WIDTH 198 MM)

Cell type	Ah@C ₅ at 30 Deg C	Length (mm)	Dry weight (Kg.)	Acid Volume (Ltr.)	Filled Weight (Kg.)	Cell type	Ah@C ₅ at 30 Deg C	Length (mm)	Dry weight (Kg.)	Acid Volume (Ltr.)	Filled Weight (Kg.)
Positive Plate Capacity 50 Ah. Overall Height 309mm, Height upto Lid Top 279 mm						Positive Plate Capacity 60 Ah. Overall Height 365mm, Height upto Lid Top 335 mm					
2MIPzS 100	100	47	5.5	1.2	7.0	2MIPzS 120	120	47	6.4	1.4	8.2
3MIPzS 150	150	65	7.8	1.9	10.3	3MIPzS 180	180	65	9.1	2.2	12.0
4MIPzS 200	200	83	10.1	2.5	13.3	4MIPzS 240	240	83	11.7	3.0	15.5
5MIPzS 250	250	101	12.4	3.0	16.4	5MIPzS 300	300	101	14.4	3.6	19.1
6MIPzS 300	300	119	14.8	3.7	19.5	6MIPzS 360	360	119	17	4.4	22.7
7MIPzS 350	350	137	17.1	4.3	22.6	7MIPzS 420	420	137	19.7	5.1	26.3
8MIPzS 400	400	155	19.4	4.9	25.7	8MIPzS 480	480	155	22.4	5.8	29.9
9MIPzS 450	450	173	21.8	5.5	28.9	9MIPzS 540	540	173	25.0	6.6	33.5
10MIPzS 500	500	191	24.1	6.1	31.9	10MIPzS 600	600	191	27.7	7.3	37.1
Positive Plate Capacity 80 Ah. Overall Height 428mm, Height upto Lid Top 398 mm						Positive Plate Capacity 90 Ah. Overall Height 495mm, Height upto Lid Top 465 mm					
2MIPzS 160	160	47	8	1.7	10.2	2MIPzS 180	180	47	9.2	2.0	11.8
3MIPzS 240	240	65	11.5	2.7	15.0	3MIPzS 270	270	65	13.2	3.1	17.2
4MIPzS 320	320	83	14.8	3.6	19.4	4MIPzS 360	360	83	17.1	4.2	22.5
5MIPzS 400	400	101	18.2	4.4	23.9	5MIPzS 450	450	101	21	5.1	27.6
6MIPzS 480	480	119	21.6	5.4	28.5	6MIPzS 540	540	119	25	6.2	33.0
7MIPzS 560	560	137	25	6.2	33.0	7MIPzS 630	630	137	28.9	7.2	38.2
8MIPzS 640	640	155	28.4	7.1	37.5	8MIPzS 720	720	155	32.9	8.2	43.5
9MIPzS 720	720	173	31.8	8.0	42.1	9MIPzS 810	810	173	36.8	9.3	48.8
10MIPzS 800	800	191	35.2	8.8	46.6	10MIPzS 900	900	191	40.7	10.2	53.9
Positive Plate Capacity 105 Ah. Overall Height 544mm, Height upto Lid Top 514 mm						Positive Plate Capacity 115 Ah. Overall Height 574mm, Height upto Lid Top 544 mm					
2MIPzS 210	210	47	10.3	2.2	13.2	2MIPzS 230	230	47	11.4	2.3	14.4
3MIPzS 315	315	65	14.8	3.5	19.3	3MIPzS 345	345	65	16.4	3.7	21.1
4MIPzS 420	420	83	19.2	4.6	25.2	4MIPzS 460	460	83	21.3	4.9	27.6
5MIPzS 525	525	101	23.6	5.7	30.9	5MIPzS 575	575	101	26.3	6.0	34.0
6MIPzS 630	630	119	28	6.9	36.9	6MIPzS 690	690	119	31.2	7.3	40.6
7MIPzS 735	735	137	32.5	8.0	42.8	7MIPzS 805	805	137	36.2	8.4	47.0
8MIPzS 840	840	155	36.9	9.1	48.7	8MIPzS 920	920	155	41.1	9.6	53.5
9MIPzS 945	945	173	41.4	10.3	54.7	9MIPzS 1035	1035	173	46.1	10.9	60.1
10MIPzS 1050	1050	191	45.8	11.4	60.6	10MIPzS 1150	1150	191	51.1	12.0	66.5
Positive Plate Capacity 125 Ah. Overall Height 600mm,						Positive Plate Capacity 140 Ah. Overall Height 715mm,					
2MIPzS 250	250	47	12.2	2.5	15.4	2MIPzS 280	280	47	13.9	3.0	17.8
3MIPzS 375	375	65	17.5	3.9	22.5	3MIPzS 420	420	65	20	4.7	26.1
4MIPzS 500	500	83	22.8	5.2	29.5	4MIPzS 560	560	83	26.1	6.3	34.2
5MIPzS 625	625	101	28.1	6.4	36.3	5MIPzS 700	700	101	32.2	7.7	42.1
6MIPzS 750	750	119	33.4	7.8	43.4	6MIPzS 840	840	119	38.3	9.3	50.3
7MIPzS 875	875	137	38.7	9.0	50.3	7MIPzS 980	980	137	44.4	10.8	58.3
8MIPzS 1000	1000	155	44	10.3	57.2	8MIPzS 1120	1120	155	50.5	12.3	66.4
9MIPzS 1125	1125	173	49.3	11.6	64.3	9MIPzS 1260	1260	173	56.6	14.0	74.6
10MIPzS 1250	1250	191	54.6	12.8	71.1	10MIPzS 1400	1400	191	62.7	15.4	82.5

Cell type	Ah@C ₅ at 30 Deg C	Length (mm)	Dry weight (Kg.)	Acid Volume (Ltr.)	Filled Weight (Kg.)
Positive Plate Capacity 155 Ah. Overall Height 745mm, Height upto Lid Top 715 mm					
2MIPzS 310	310	47	14.8	3.2	18.9
3MIPzS 465	465	65	21.4	4.9	27.8
4MIPzS 620	620	83	27.8	6.5	36.2
5MIPzS 775	775	101	34.3	8.1	44.7
6MIPzS 930	930	119	40.8	9.8	53.4
7MIPzS 1085	1085	137	47.4	11.3	62.0
8MIPzS 1240	1240	155	53.9	12.9	70.6
9MIPzS 1395	1395	173	60.4	14.6	79.3
10MIPzS 1550	1550	191	66.9	16.1	87.7



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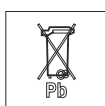
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Electrical Hazard

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