Handles the highest expectations.

Vented Material Handling Essential. European EPzS & EPzB cell technology where quality delivers reliable performance.





mericas-energy.com

MERICAS®

Better cells mean better business.

A traction battery is a chain of cells. And like any chain, it’s only as strong as its weakest link. That’s why we pay close attention to every detail that goes into each one.

Our EPzS and EPzB range combine proven tubular plate technology with robust lead-acid construction and precisely controlled manufacturing. The result: long cycle life, high energy density and reliable performance – with an excellent quality-to-cost ratio over the cell’s service life.

The key features:

At least 1500 cycles:
High cycle performance according to IEC 60254-1

Proven tubular technology:
Designed for long cycle life and reliable performance

High energy density:
For strong performance and long operating times

Robust vented lead-acid technology:
With liquid electrolyte for demanding industrial use

Fully insulated, bolted connections:
Designed for reliable electrical performance

DIN & BS range:
Standardized sizes according to IEC 60254-2

Fully recyclable

Proven cell technology → **Long cycle life** + **High energy density** + **Low maintenance** → **Reduced TCO**



AI generated

Every part adds to your advantage.

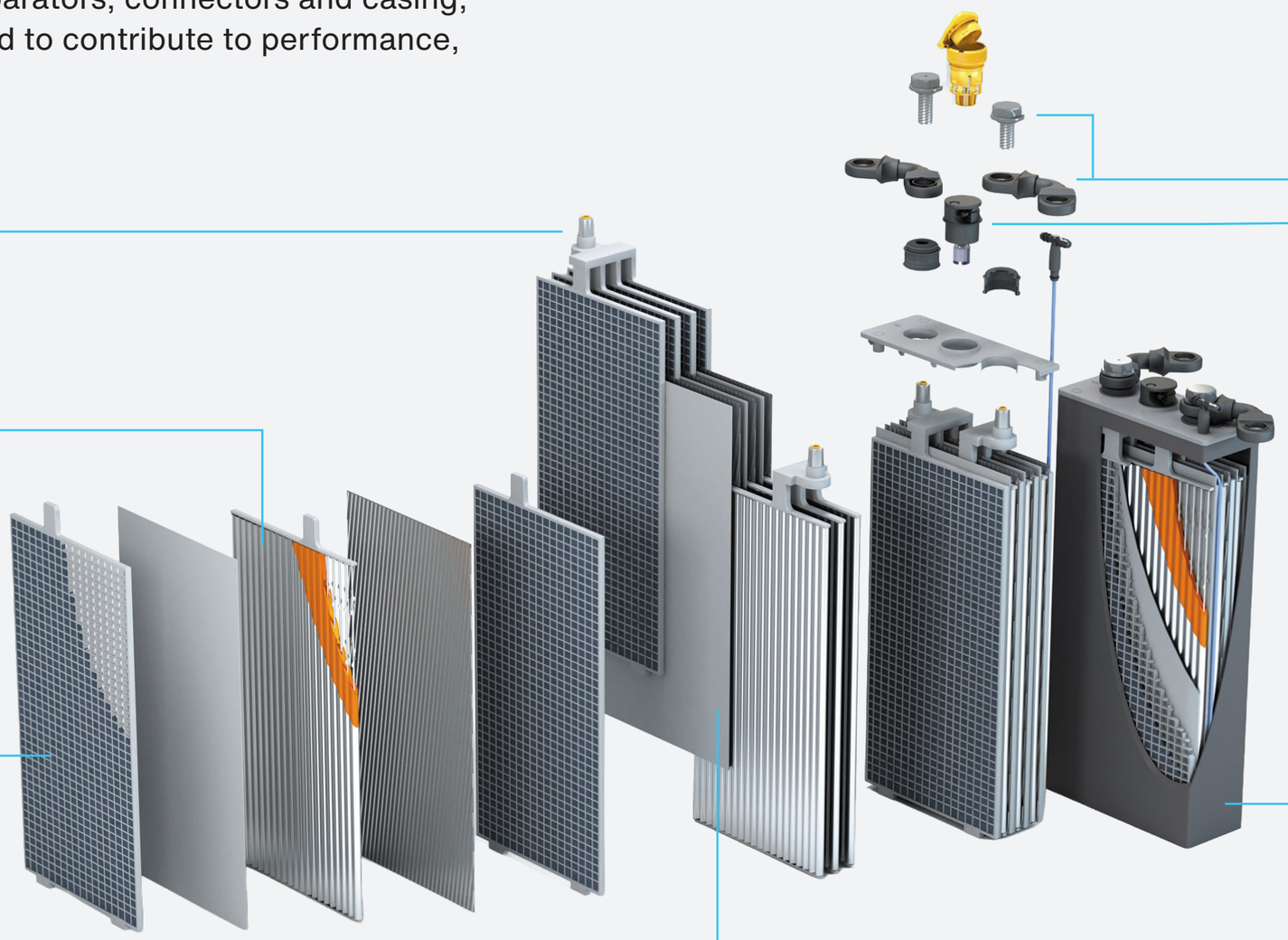
From plate construction to separators, connectors and casing, every component is engineered to contribute to performance, reliability and long-term value.



Terminal assembly
Plates, bridge and post are joined using Cast-On-Strap (COS) technology for a robust connection.

Tubular positive plate
Non-woven polyester tubes, a heat-sealed base, ultrasound reinforcement and lateral protection help retain the active mass and safeguard the plate construction. See page 6.

Negative plate
Flat-grid negative plate design for proven EPzS and EPzB lead-acid cells. See page 7.



Bolted connections
Isolated copper connectors and screws support reliable cell-to-cell connections while minimizing short-circuit risks. The insulated screws also allow voltage measurement.

Bolted terminals and flexible insulated copper connectors are designed for efficient electrical flow and strong performance in high-current applications. See page 8.

Flip-top plug
Safety closure, leak containment and electrolyte level indication in one part.

Case & lid
Reinforced polypropylene provides high mechanical resistance for harsh operating conditions. Leak-free construction and German Hadi heat-sealing technology help keep the cell securely sealed.

Microporous separators
Provide additional protection against internal short circuits for safe, reliable operation.

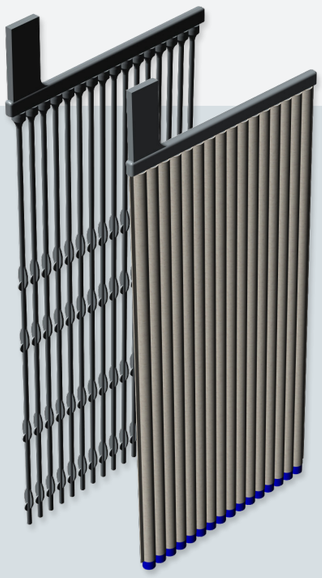
Advanced active mass production for consistently high plate quality.

EVACHTERM vacuum cooling minimizes environmental influences during active-mass production, while INBATEC-DIGATRON technology precisely controls electrolyte temperature and specific gravity during formation – helping ensure consistent quality from plate to plate.



The positive side of long-term performance.

Every charge and discharge puts the positive active mass to work. The better the plate retains it, the longer the cell can keep delivering. That’s why we hold it securely inside tubular plates. The design combines a larger active surface, more electrolyte per Ah and higher available capacity – supporting reliable performance, lower operating temperatures and longer operating times. Each positive plate starts with a PbSb grid, injected at 100 bar. Wet-paste filling adds a precisely controlled amount of active mass into reinforced non-woven polyester tubes. Then every plate is weight-controlled.



Why tubular pays off:

Better active-mass retention:
Tubular construction keeps more of the active material where it belongs.

Larger active surface:
Designed for strong electrochemical performance.

Lower operating temperature:
A larger volume of electrolyte per Ah helps keep operating temperatures down.

Longer operating times:
Larger available capacity keeps the battery working longer between charges.

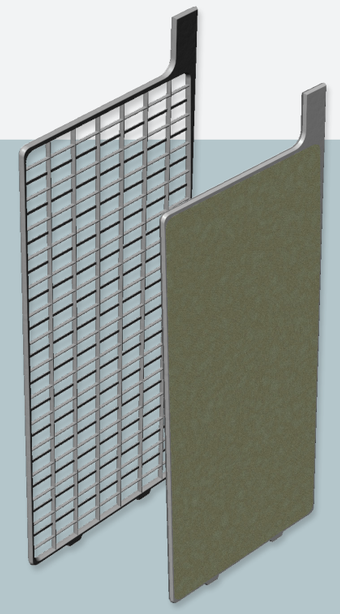
And the negative plate? Flat-out reliable.

A tubular positive plate needs a reliable counterpart. Our flat-grid negative plates are built with the same attention to consistency and quality. The grid is made from a PbSb alloy in an enclosed crucible protected by gas flames to prevent oxidation. Paste moisture, weight and thickness are precisely controlled – helping ensure consistent quality from one negative plate to the next.

At a glance:

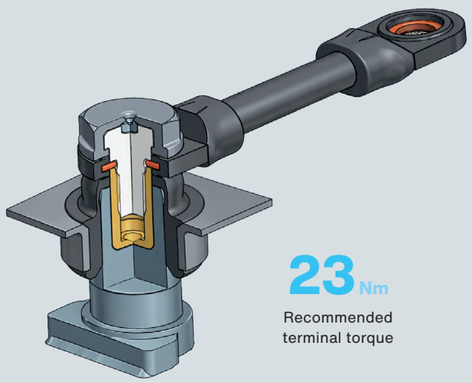
Flat-grid design for industrial applications:
With lead-based active mass and a PbSb alloy grid.

Controlled manufacturing for consistent quality:
The PbSb grid is protected from oxidation during production, while paste moisture, weight and thickness are precisely controlled.



When current counts, connections matter.

A battery can only perform as well as the connections between its cells. That’s why our bolted terminal design combines secure contact, excellent watertightness and low electrical resistance – helping energy flow efficiently from cell to cell, even in high-current applications.



23 Nm
Recommended terminal torque

Why bolted pays off:

Efficient electrical flow:
Low electrical resistance ensures that energy flows efficiently from cell to cell.

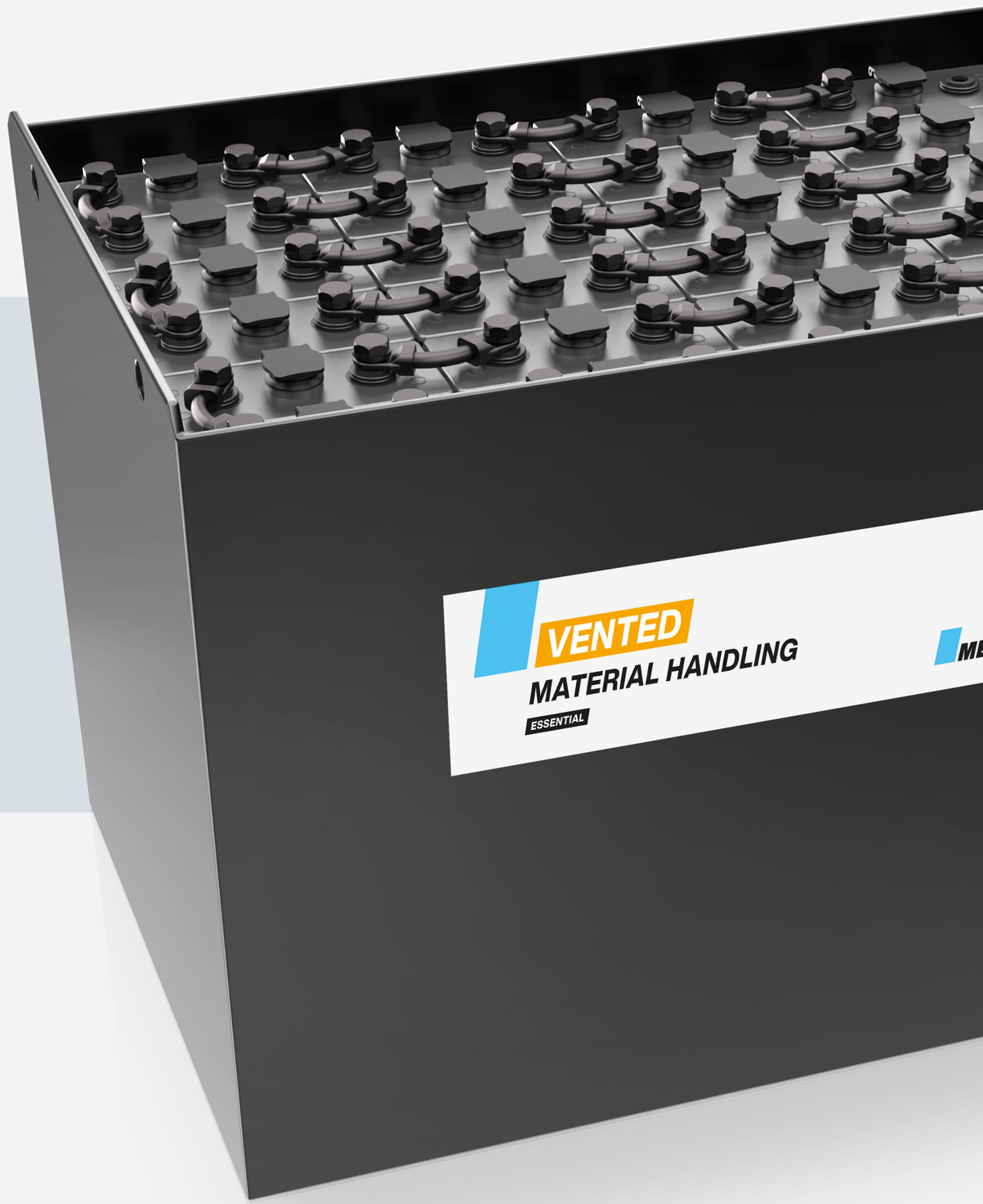
Strong high-current performance:
Designed to support better performance in demanding high-current applications.

Secure cell-to-cell contact:
Flexible insulated copper connectors help maintain reliable electrical contact.

Protection against corrosion:
Insulated connectors and screws help protect the connection over time.

Excellent watertightness:
The terminal design helps keep the connection securely sealed.

Secure contact → **Low resistance** → **Efficient electrical flow** → **Strong high-current performance**



Long life makes a difference.

Switching from combustion to electric helps reduce CO_2, soot and noise – for cleaner, quieter operations. EPzS and EPzB cells help make that transition easier. And with long service life, high energy efficiency and full recyclability, proven lead-acid technology keeps delivering benefits right to the end of the road.

Tailormade for these applications:





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Our European manufacturing network works to internationally recognized standards including:
DIN EN ISO 9001, DIN EN ISO 50001,
DIN EN ISO 14001, ISO 45001, IATF 16949,
PECAL/AQAP 2110 and UNE 73401.

High standards come standard.

European manufacturing expertise is built into every tubular plate. Produced in Germany, Spain and Portugal under tightly controlled processes, they are made to deliver consistent quality and reliable performance over the long run.

That quality is backed by two R&D labs in Europe and around 100 specialists in R&D and advanced system engineering. From battery materials and electrochemical performance to simulation, prototyping and advanced testing, their work drives continuous improvements in performance, safety, resource efficiency and lifecycle impact.

Designed and assembled in Europe

R&D facility in Europe

Energy consultation and service, made in Europe.

We believe in close collaboration and being there when our clients need us. That means our work doesn't stop at your purchase – it starts there. With expert consultation and dedicated service, we're the partner at your side to energize a new world.

Every size you specify. Built the way you'd want.

Our EPzS and EPzB cells follow IEC 60254-2 standard dimensions, offering a broad range of capacities and sizes to match your requirements.

Technical features:

- Robust lead-acid battery technology with liquid electrolyte
- Proven tubular plate technology for long cycle life
- Fully insulated, bolted terminals and connectors
- Fully recyclable
- Recommended options: automatic watering system, electrolyte level sensor, and air agitation system for extended lifetime

Standards & certifications:

- DIN and BS sizes according to IEC 60254-2
- Manufactured in accordance with DIN EN ISO 9001
- Environmental management in accordance with DIN EN ISO 14001

Nominal capacity:
120-1550 Ah (DIN-cells)
110-1000 Ah (BS-cells)

Single cell

Tubular plate

Recyclable

1500 cycles acc. to IEC 60254-1

Technical characteristics and data (DIN-cells width 198 mm)

Type	Nominal capacity	Length	Height		Weight**
60 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 120	120	47	333	363	8.5
3 EPzS 180	180	65	333	363	12.0
4 EPzS 240	240	83	333	363	15.4
5 EPzS 300	300	101	333	363	19.0
6 EPzS 360	360	119	333	363	22.5
7 EPzS 420	420	137	333	363	26.0
8 EPzS 480	480	155	333	363	29.5
9 EPzS 540	540	173	333	363	33.0
10 EPzS 600	600	191	333	363	36.5

Type	Nominal capacity	Length	Height		Weight**
80 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 160	160	47	396	426	10.0
3 EPzS 240	240	65	396	426	14.2
4 EPzS 320	320	83	396	426	18.4
5 EPzS 400	400	101	396	426	22.6
6 EPzS 480	480	119	396	426	26.7
7 EPzS 560	560	137	396	426	31.3
8 EPzS 640	640	155	396	426	35.1
9 EPzS 720	720	173	396	426	39.3
10 EPzS 800	800	191	396	426	43.4

* Capacity per positive plate Ah (C_5) at 30 °C / 86 °F
** Filled and charged cell weights +/- 5 %

Technical characteristics and data (DIN-cells width 198 mm)

Type	Nominal capacity	Length	Height		Weight**
90 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 180	180	47	463	493	11.9
3 EPzS 270	270	65	463	493	17.0
4 EPzS 360	360	83	463	493	22.1
5 EPzS 450	450	101	463	493	27.1
6 EPzS 540	540	119	463	493	32.2
7 EPzS 630	630	137	463	493	37.2
8 EPzS 720	720	155	463	493	42.3
9 EPzS 810	810	173	463	493	47.4
10 EPzS 900	900	191	463	493	52.4

Type	Nominal capacity	Length	Height		Weight**
105 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 210	210	47	511	541	13.5
3 EPzS 315	315	65	511	541	19.1
4 EPzS 420	420	83	511	541	24.6
5 EPzS 525	525	101	511	541	30.5
6 EPzS 630	630	119	511	541	36.1
7 EPzS 735	735	137	511	541	41.8
8 EPzS 840	840	155	511	541	47.4
9 EPzS 945	945	173	511	541	53.1
10 EPzS 1050	1050	191	511	541	58.4

115 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 230	230	47	542	572	14.2
3 EPzS 345	345	65	542	572	20.3
4 EPzS 460	460	83	542	572	26.4
5 EPzS 575	575	101	542	572	32.4
6 EPzS 690	690	119	542	572	39.0
7 EPzS 805	805	137	542	572	44.7
8 EPzS 920	920	155	542	572	50.6
9 EPzS 1035	1035	173	542	572	56.6
10 EPzS 1150	1150	191	542	572	62.7

125 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 250	250	47	573	603	15.0
3 EPzS 375	375	65	573	603	21.2
4 EPzS 500	500	83	573	603	27.4
5 EPzS 625	625	101	573	603	33.9
6 EPzS 750	750	119	573	603	40.3
7 EPzS 875	875	137	573	603	46.5
8 EPzS 1000	1000	155	573	603	53.1
9 EPzS 1125	1125	173	573	603	59.4
10 EPzS 1250	1250	191	573	603	66.0

140 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 280	280	47	683	713	17.5
3 EPzS 420	420	65	683	713	24.7
4 EPzS 560	560	83	683	713	31.8
5 EPzS 700	700	101	683	713	39.3
6 EPzS 840	840	119	683	713	46.7
7 EPzS 980	980	137	683	713	53.9
8 EPzS 1120	1120	155	683	713	61.3
9 EPzS 1260	1260	173	683	713	68.6
10 EPzS 1400	1400	191	683	713	76.0

155 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzS 310	310	47	713	743	18.9
3 EPzS 465	465	65	713	743	26.7
4 EPzS 620	620	83	713	743	34.6
5 EPzS 775	775	101	713	743	42.6
6 EPzS 930	930	119	713	743	50.5
7 EPzS 1085	1085	137	713	743	58.5
8 EPzS 1240	1240	155	713	743	66.4
9 EPzS 1395	1395	173	713	743	74.4
10 EPzS 1550	1550	191	713	743	82.4

* Capacity per positive plate Ah (C_5) at 30 °C / 86 °F
** Filled and charged cell weights +/- 5 %

Technical characteristics and data (BS-cells width 160 mm)

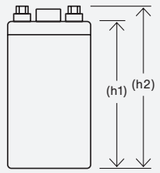
Type	Nominal capacity	Length	Height		Weight**
65 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzB 130***	130	46	454	487	9.1
3 EPzB 195***	195	62	454	487	12.5
4 EPzB 260	260	78	454	487	16.1
5 EPzB 325	325	94	454	487	19.5
6 EPzB 390	390	110	454	487	23.0
7 EPzB 455	455	126	454	487	26.5
8 EPzB 520	520	142	454	487	30.1
9 EPzB 585	585	158	454	487	33.5
10 EPzB 650	650	174	454	487	37.0

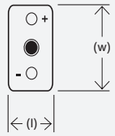
Type	Nominal capacity	Length	Height		Weight**
75 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzB 150***	150	46	515	548	10.3
3 EPzB 225***	225	62	515	548	14.2
4 EPzB 300	300	78	515	548	18.2
5 EPzB 375	375	94	515	548	22.2
6 EPzB 450	450	110	515	548	26.2
7 EPzB 525	525	126	515	548	30.2
8 EPzB 600	600	142	515	548	34.2
9 EPzB 675	675	158	515	548	38.2
10 EPzB 750	750	174	515	548	42.2

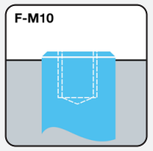
100 Ah*	Ah (C_5)	(l) max. mm	(h1) max. mm	(h2) max. mm	kg
2 EPzB 200***	200	46	606	639	11.6
3 EPzB 300***	300	62	606	639	16.3
4 EPzB 400	400	78	606	639	21.0
5 EPzB 500	500	94	606	639	25.7
6 EPzB 600	600	110	606	639	30.4
7 EPzB 700	700	126	606	639	35.2
8 EPzB 800	800	142	606	639	40.2
9 EPzB 900	900	158	606	639	45.0
10 EPzB 1000	1000	174	606	639	49.7

* Capacity per positive plate Ah (C_5) at 30 °C / 86 °F
** Filled and charged cell weights +/- 5 %
*** Air agitation system and electrolyte level sensor are not available for these cells

Drawings, terminal and torque







23 Nm / 204 lbf·in

h1 = height above cell lid
h2 = height above pole (incl. connector and pole screw)

Not to scale!

Progress knows no borders.
Like our dedication for a sustainable future.

Mericas® battery solutions are designed and manufactured in Europe.
Transforming the future of energy storage and driving the electrification
from all our locations around the world.



- Automotive plant
- Industrial plant
- R&D facility
- Recycling
- Global HQ
- Principle sales offices
  + sales offices and distribution centers across the world

All manufacturing plants **ISO 9001** certified

All automotive plants **IATF 16949** certified

All manufacturing plants **ISO 14001** certified

All manufacturing plants **ISO 50001** certified

Most manufacturing plants **ISO 45001** certified

Subject to alterations

MMFMETEPDF01126

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