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Trust **Lucas**

Motive Power

LUCAS, a brand name synonymous with quality and excellence. Lucas supplies a wide range of stored energy products, from automotive through to aerospace, that deliver outstanding quality, reliability, and durability.

LUCAS products use only modern infrastructure, continuous innovation and excellence, developing reliable battery solutions.

LUCAS products have gained international recognition by ensuring uninterrupted and reliable operations in a wide range of critical applications for a broad spectrum of industries, including Material Handling and Logistics.

The complete Motive Power portfolio consists of:

Motive Power Cells & Batteries

Full list of accessories*

Lucas Cells & Batteries is the most representative solution portfolio offered to our customers in the Material Handling industry.

The Motive cell design, state of the art production equipment and premium quality materials provide high end performance, excellent reliability and long service life.

Lucas Motive cell ranges, fully comply to the DIN/EN 60254-2 standards and are available both in DIN and BS dimensions, ensuring full compatibility and flexibility for all battery applications.

Designed and manufactured for ultimate performance

1 Positive Grid

- Die Casted Grid using Optimized Lead - Antimony Alloy
- High tensile strength, corrosion resistance, excellent interface with the active mass

2 Positive Active Mass

- 100% Red Lead
- Efficient formation ensures that full cell capacity is achieved after 3-5 cycles
- Dry filling Process
- Uniformly filled positive plates, 100% weight controlled
- In house Red Lead production
- Constant quality, homogeneous tamped density
- Produced by 99,99% Primary Lead
- Long service life, high conductivity increased performance

3 Gauntlet

- Non woven, high quality polyester
- Prevents mass shedding, high mechanical stability

4 Bottom Bar

- Ultrasonically Welded
- Provides space for the unavoidable growth of the spine

5 Negative Grid

- Gravity Casted Grid using Optimized Lead - Antimony Alloy
- High tensile strength, corrosion resistance, low water consumption

6 Negative Active Mass

- In house production of Lead Oxide
- Constant quality
- Fully automatic Vacuum Negative Paste Mixing Process
- Consistency of the Negative Active Mass

7 Separator

- Highly porous Polyethylene, enveloped using mechanically crimped sleeve
- Increased performance preventing short-circuits

8 Formation & Activation

- Fully automatic Jar Formation process
- Constant quality in each and every cell

9 Electrolyte

- High Purity
- Long life performance

10 Pole Terminal

- Innovative conical design of the pole sealing system
- Uses the unavoidable growth of the plates to press against the grommet and improve the sealing
- Tin plated 16 mm diameter inserts

11 Pole Bridge

- Cast On Strap manufactured pole bridge
- Consistent & uniform composition ensures superior connections

12 Lid

- Polypropylene reinforced lid thermo-welded to the container

13 Cell Container

- Polypropylene container, with sufficient sediment space

14 Operational Vent Plug

- Electrolyte level marking, anti-surge baffle, free cell gassing
- Increased operational safety

- Key Features
- Design Features
- Benefits

- Manufactured on the best in-class equipment
- Fully controlled production process
- Solid design for long life in tough conditions
- Uncompromised use of raw materials

DIN Cell Range

Plate Type: 60 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 343	
			h2: 370	
I				
2 EPzS 120 LT	120	47	8.5	
3 EPzS 180 LT	180	65	12.0	
4 EPzS 240 LT	240	83	15.4	
5 EPzS 300 LT	300	101	19.0	
6 EPzS 360 LT	360	119	22.5	
7 EPzS 420 LT	420	137	26.0	
8 EPzS 480 LT	480	155	29.5	
9 EPzS 540 LT	540	174	33.0	
10 EPzS 600 LT	600	192	36.5	

Plate Type: 80 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 408	
			h2: 435	
I				
2 EPzS 160 LT	160	47	10.0	
3 EPzS 240 LT	240	65	14.2	
4 EPzS 320 LT	320	83	18.4	
5 EPzS 400 LT	400	101	22.6	
6 EPzS 480 LT	480	119	26.7	
7 EPzS 560 LT	560	137	31.3	
8 EPzS 640 LT	640	155	35.1	
9 EPzS 720 LT	720	174	39.3	
10 EPzS 800 LT	800	192	43.4	

Plate Type: 90 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 478	
			h2: 505	
I				
2 EPzS 180 LT	180	47	11.9	
3 EPzS 270 LT	270	65	17.0	
4 EPzS 360 LT	360	83	22.1	
5 EPzS 450 LT	450	101	27.1	
6 EPzS 540 LT	540	119	32.2	
7 EPzS 630 LT	630	137	37.2	
8 EPzS 720 LT	720	155	42.3	
9 EPzS 810 LT	810	174	47.4	
10 EPzS 900 LT	900	192	52.4	

Plate Type: 23 Ah****				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 203	
			h2: 230	
I				
2 EPzB 46 LT	46	45	3.9	
3 EPzB 69 LT	69	61	5.3	
4 EPzB 92 LT	92	77	6.7	
5 EPzB 115 LT	115	93	8.1	
6 EPzB 138 LT	138	109	9.5	

Plate Type: 32 Ah****				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 265	
			h2: 292	
I				
2 EPzB 64 LT	64	45	5.0	
3 EPzB 96 LT	96	61	6.8	
4 EPzB 128 LT	128	77	8.7	
5 EPzB 160 LT	160	93	10.6	
6 EPzB 192 LT	192	109	12.5	
7 EPzB 224 LT	224	125	14.4	
8 EPzB 256 LT	256	141	16.2	

Plate Type: 42 Ah****				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 331	
			h2: 358	
I				
2 EPzB 84 LT	84	45	6.5	
3 EPzB 126 LT	126	61	8.9	
4 EPzB 168 LT	168	77	11.4	
5 EPzB 210 LT	210	93	13.8	
6 EPzB 252 LT	252	109	16.3	
7 EPzB 294 LT	294	125	18.8	
8 EPzB 336 LT	336	141	21.2	

Plate Type: 105 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 514	
			h2: 541	
I				
2 EPzS 210 LT	210	47	13.5	
3 EPzS 315 LT	315	65	19.1	
4 EPzS 420 LT	420	83	24.6	
5 EPzS 525 LT	525	101	30.5	
6 EPzS 630 LT	630	119	36.1	
7 EPzS 735 LT	735	137	41.8	
8 EPzS 840 LT	840	155	47.4	
9 EPzS 945 LT	945	174	53.1	
10 EPzS 1050 LT	1050	192	58.4	

Plate Type: 115 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 548	
			h2: 575	
I				
2 EPzS 230 LT	230	47	14.2	
3 EPzS 345 LT	345	65	20.3	
4 EPzS 460 LT	460	83	26.4	
5 EPzS 575 LT	575	101	32.4	
6 EPzS 690 LT	690	119	39.0	
7 EPzS 805 LT	805	137	44.7	
8 EPzS 920 LT	920	155	50.6	
9 EPzS 1035 LT	1035	174	56.6	
10 EPzS 1150 LT	1150	192	62.7	

Plate Type: 125 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 568	
			h2: 595	
I				
2 EPzS 250 LT	250	47	15.0	
3 EPzS 375 LT	375	65	21.2	
4 EPzS 500 LT	500	83	27.4	
5 EPzS 625 LT	625	101	33.9	
6 EPzS 750 LT	750	119	40.3	
7 EPzS 875 LT	875	137	46.5	
8 EPzS 1000 LT	1000	155	53.1	
9 EPzS 1125 LT	1125	174	59.4	
10 EPzS 1250 LT	1250	192	66.0	

Plate Type: 55 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 401	
			h2: 428	
I				
2 EPzB 110 LT	110	45	7.9	
3 EPzB 165 LT	165	61	11.0	
4 EPzB 220 LT	220	77	14.0	
5 EPzB 275 LT	275	93	17.1	
6 EPzB 330 LT	330	109	20.1	
7 EPzB 385 LT	385	125	23.2	
8 EPzB 440 LT	440	141	26.2	
9 EPzB 495 LT	495	157	29.2	
10 EPzB 550 LT	550	173	32.3	

Plate Type: 65 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 457	
			h2: 484	
I				
2 EPzB 130 LT	130	45	9.1	
3 EPzB 195 LT	195	61	12.5	
4 EPzB 260 LT	260	77	16.1	
5 EPzB 325 LT	325	93	19.5	
6 EPzB 390 LT	390	109	23.0	
7 EPzB 455 LT	455	125	26.5	
8 EPzB 520 LT	520	141	30.1	
9 EPzB 585 LT	585	157	33.5	
10 EPzB 650 LT	650	173	37.0	

Plate Type: 75 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 514	
			h2: 541	
I				
2 EPzB 150 LT	150	45	10.3	
3 EPzB 225 LT	225	61	14.2	
4 EPzB 300 LT	300	77	18.2	
5 EPzB 375 LT	375	93	22.2	
6 EPzB 450 LT	450	109	26.2	
7 EPzB 525 LT	525	125	30.2	
8 EPzB 600 LT	600	141	34.2	
9 EPzB 675 LT	675	157	38.2	
10 EPzB 750 LT	750	173	42.2	

Plate Type: 140 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 688	
			h2: 715	
I				
2 EPzS 280 LT	280	47	17.5	
3 EPzS 420 LT	420	65	24.7	
4 EPzS 560 LT	560	83	31.8	
5 EPzS 700 LT	700	101	39.3	
6 EPzS 840 LT	840	119	46.7	
7 EPzS 980 LT	980	137	53.9	
8 EPzS 1120 LT	1120	155	61.3	
9 EPzS 1260 LT	1260	174	68.6	
10 EPzS 1400 LT	1400	192	76.0	

Plate Type: 155 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 198	h1: 713	
			h2: 740	
I				
2 EPzS 310 LT	310	47	18.9	
3 EPzS 465 LT	465	65	26.7	
4 EPzS 620 LT	620	83	34.6	
5 EPzS 775 LT	775	101	42.6	
6 EPzS 930 LT	930	119	50.5	
7 EPzS 1085 LT	1085	137	58.5	
8 EPzS 1240 LT	1240	155	66.4	
9 EPzS 1395 LT	1395	174	74.4	
10 EPzS 1550 LT	1550	192	82.4	

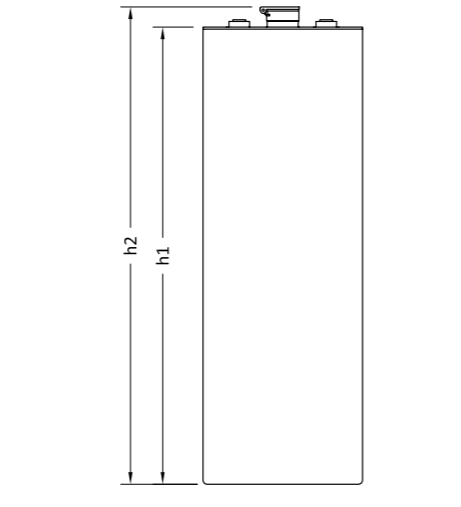


Plate Type: 85 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 570	
			h2: 597	
I				
2 EPzB 170 LT	170	45	11.5	
3 EPzB 255 LT	255	61	16.2	
4 EPzB 340 LT	340	77	20.5	
5 EPzB 425 LT	425	93	25.0	
6 EPzB 510 LT	510	109	29.4	
7 EPzB 595 LT	595	125	33.8	
8 EPzB 680 LT	680	141	38.4	
9 EPzB 765 LT	765	157	42.6	
10 EPzB 850 LT	850	173	47.2	

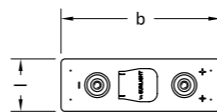
Plate Type: 100 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 606	
			h2: 633	
I				
2 EPzB 200 LT	200	45	12.3	
3 EPzB 300 LT	300	61	16.8	
4 EPzB 400 LT	400	77	21.5	
5 EPzB 500 LT	500	93	26.1	
6 EPzB 600 LT	600	109	30.8	
7 EPzB 700 LT	700	125	35.4	
8 EPzB 800 LT	800	141	40.1	
9 EPzB 900 LT	900	157	44.5	
10 EPzB 1000 LT	1000	173	48.9	

Plate Type: 105 Ah				
Type Designation	Nominal Capacity Ah (C ₅)*	max cell dimensions mm***		Weight in kg**
		b: 158	h1: 686	
			h2: 713	
I				
2 EPzB 210 LT	210	45	14.1	
3 EPzB 315 LT	315	61	19.4	
4 EPzB 420 LT	420	77	24.8	
5 EPzB 525 LT	525	93	30.1	
6 EPzB 630 LT	630	109	35.4	
7 EPzB 735 LT	735	125	40.9	
8 EPzB 840 LT	840	141	46.3	

* According to IEC 60254- Part 1

** Filled and charged cell weights ± 5%

*** Cells' dimensions according to IEC 60254-Part 2



* According to IEC 60254- Part 1

** Filled and charged cell weights ± 5%

*** Cells' dimensions ± 2 mm, according to IEC 60254- Part 2

**** Available upon request

APPLICATIONS

- Motive Power batteries can be used in all kinds of forklift trucks, cleaning machines and other electrical vehicles.
- They are available in all kinds of voltage, configuration and forms.



1 Inter-cell Connector

- ⚙ Fully insulated flexible bolt-on cable connectors
- ✓ Allows fast and easy cell replacement
- ✓ Reduces time & cost

2 Bolt

- ⚙ Plastic-head connector bolt
- ✓ Touch proof insulated with voltage measurement point

3 Battery Connectors (Plugs & Sockets)

- ⚙ Available in the following types:
 - DIN Type connectors according to DIN 43589
 - Flat pole connectors with color coding

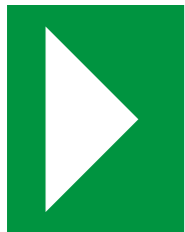
- ⚙ Design Features
- ✓ Benefits

4 Exit Cables

- ⚙ Insulated color marked cables
- ✓ Prevent short circuit and allow correct and fast installation

5 Tray

- Made of steel
- ⚙ Protected with plastic powder coating (standard configuration)
- ✓ Durability
- ✓ Corrosion protection
- ✓ Available in various sizes and colors



- Available in every voltage and cell arrangement configuration
- Fully plastic coated steel containers in many dimensions
- Insulated bolts and connectors increasing the user safety and simplifying maintenance and repair
- A complete range of accessories covering practically every need
- Suitable for all applications from light duty to heavy duty