Motive Power Cells & Batteries

PzS DIN, PzB BS







Motive Power

UPOWER is a company specialized in producing and distributing autonomous energy.

With our own factories in the Republic of Bulgaria.

This ensures an exhaustive quality control over our solutions, adding value to them. At the same time, it allows the collaboration between both countries.

Is a leading brand in energy solutions and services of high added value.

We work with several sectors, such as security, defense, transportation, traffic, energy and industry, telecommunications, naval, fishing, amongst other sectors in which our energy solutions are present. UPOWER follows a value-creating strategy.

It offers a global management model that covers client's needs.

This model starts with the design of the solution, going through the development and implantation, and ending with the operative management.

Supplies its clients with a complete and valuable offer for their energy needs.

It includes consulting, project development, and integration in their applications.

The complete Motive Power portfolio consists of:

Upower PzS, PzB Series

The proven vented solution with excellent reliability and long service life, utilizing premium quality materials

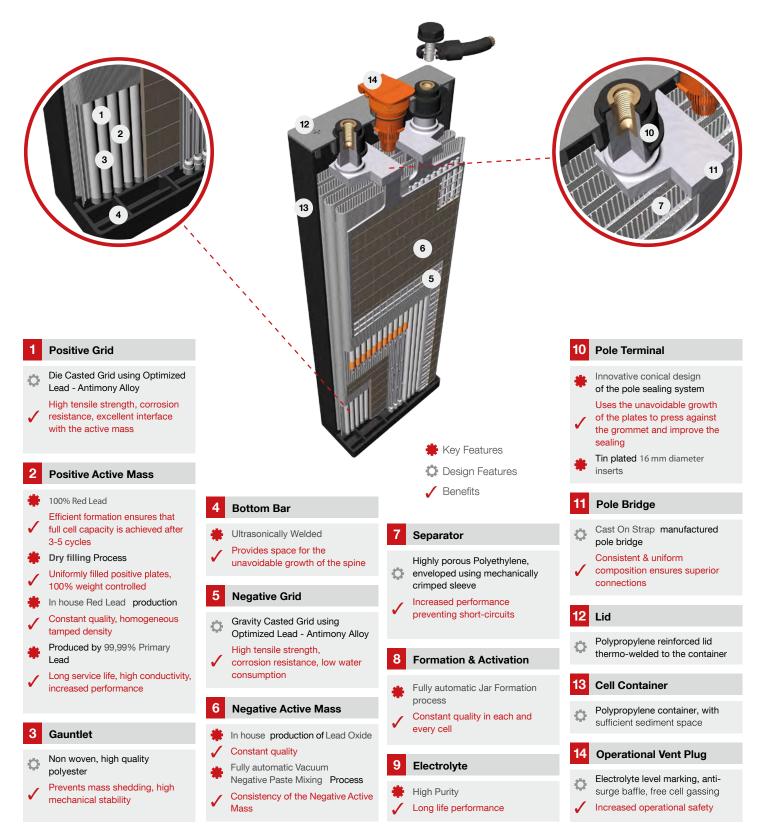
Upower Motive Power Cells & Batteries is the most representative solution portfolio offered to our customers in the Material Handling industry.

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

Upower 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 & Manufactured for Ultimate Performance & Longevity



The Foundations of the Upower cell

Technology Choices based on Submarine Batteries | Solid Design for Long Life in Tough Conditions Manufactured on the Best-in-Class Equipment | Uncompromised use of Raw Materials | Fully Controlled Production Process

Cell

DIN Cell Range

Plate Type: 60 Ah					
		max dimensio	c cell ns mm***		
Type Designation	Nominal Capacity	b: 198	h1: 343	Weight in kg**	
Designation	Ah (C₅)*		h2: 370	ĸġ	
		I			
2 PzS 120	120	4	17	8.5	
3 PzS 180	180	65		12.0	
4 PzS 240	240	8	33	15.4	
5 PzS 300	300	10)1	19.0	
6 PzS 360	360	11	9	22.5	
7 PzS 420	420	137		26.0	
8 PzS 480	480	155		29.5	
9 PzS 540	540	17	74	33.0	
10 PzS 600	600	19	92	36.5	

	max cell dimensions mm***		
Nominal Capacity	h. 100	h1: 408	Weight in kg**
Ah (C₅)*	D: 198	h2: 435	ĸġ
	I		
160	47		10.0
240	65		14.2
320	8	33	18.4
400	10)1	22.6
480	11	9	26.7
560	13	37	31.3
640	155		35.1
720	17	'4	39.3
800	19	12	43.4
	Capacity Ah (C₅)* 160 240 320 400 480 560 640 720	Nominal Capacity Ah (C ₆)* 160 240 320 400 480 400 480 11 560 13 640 15 720	Image: Nominal Capacity Ah (C_5)* h1: 408 h2: 435 h2: 435 160 47 160 47 240 65 320 83 400 101 480 119 560 137 640 155 720 174



Plate Type: 90 Ah						
		max cell dimensions mm***				
Type	Nominal Capacity	1 100	h1: 478	Weight in		
Designation	Ah (C₅)*	b: 198	h2: 505	kg**		
			I			
2 PzS 180	180	4	17	11.9		
3 PzS 270	270	65		17.0		
4 PzS 360	360	8	33	22.1		
5 PzS 450	450	10)1	27.1		
6 PzS 540	540	11	19	32.2		
7 PzS 630	630	137		37.2		
8 PzS 720	720	155		42.3		
9 PzS 810	810	174		47.4		
10 PzS 900	900	19	92	52.4		

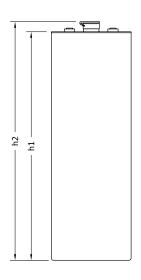
Plate Type: 105 Ah					
		max cell dimensions mm***			
Type	Nominal Capacity	1 100	h1: 514	Weight in kg**	
Designation	Ah (C₅)*	b: 198	h2: 541	кд	
			I		
2 PzS 210	210	47		13.5	
3 PzS 315	315	65		19.1	
4 PzS 420	420	83		24.6	
5 PzS 525	525	10)1	30.5	
6 PzS 630	630	11	9	36.1	
7 PzS 735	735	13	37	41.8	
8 PzS 840	840	155		47.4	
9 PzS 945	945	174		53.1	
10 PzS 1050	1050	19	92	58.4	

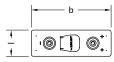
Plate Type: 115 Ah					
		max cell dimensions mm***			
Type Designation	Nominal Capacity	h. 100	h1: 548	Weight in kg**	
Designation	Ah (C₅)*	b: 198	h2: 575	ку	
		I			
2 PzS 230	230	4	17	14.2	
3 PzS 345	345	6	65	20.3	
4 PzS 460	460	8	33	26.4	
5 PzS 575	575	10)1	32.4	
6 PzS 690	690	11	19	39.0	
7 PzS 805	805	13	37	44.7	
8 PzS 920	920	155		50.6	
9 PzS 1035	1035	174		56.6	
10 PzS 1150	1150	19	92	62.7	

Plate Type: 125 Ah					
		max dimensio	c cell ns mm***		
Type Designation		Weight in kg**			
Designation	Ah (C₅)*	b: 198 h2: 59		ку	
			I		
2 PzS 250	250		47	15.0	
3 PzS 375	375	65		21.2	
4 PzS 500	500	1	83	27.4	
5 PzS 625	625	1(D1	33.9	
6 PzS 750	750	1	19	40.3	
7 PzS 875	875	1:	37	46.5	
8 PzS 1000	1000	155		53.1	
9 PzS 1125	1125	174		59.4	
10 PzS 1250	1250	19	92	66.0	

Plate Type: 140 Ah					
		max dimensio	c cell ns mm***		
Type	Nominal Capacity	1 100	h1: 688	Weight in	
Designation	Ah (C₅)*	b: 198	h2: 715	kg**	
		I			
2 PzS 280	280	47		17.5	
3 PzS 420	420	65		24.7	
4 PzS 560	560	8	33	31.8	
5 PzS 700	700	10)1	39.3	
6 PzS 840	840	11	9	46.7	
7 PzS 980	980	13	37	53.9	
8 PzS 1120	1120	155		61.3	
9 PzS 1260	1260	17	74	68.6	
10 PzS 1400	1400	19	92	76.0	

Plate Type: 155 Ah					
		max cell dimensions mm***			
Type Designation	Nominal Capacity	h. 100	h1: 713	Weight in kg**	
Designation	Ah (C₅)*	b: 198	h2: 740	кy	
		I		I	
2 PzS 310	310	4	17	18.9	
3 PzS 465	465	6	85	26.7	
4 PzS 620	620	6	33	34.6	
5 PzS 775	775	10)1	42.6	
6 PzS 930	930	11	9	50.5	
7 PzS 1085	1085	13	37	58.5	
8 PzS 1240	1240	155		66.4	
9 PzS 1395	1395	174		74.4	
10 PzS 1550	1550	19	92	82.4	





* According to IEC 60254- Part 1

 ** Filled and charged cell weights \pm 5%

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

BS Cell Range

Plate Type: 55 Ah					
		max cell dimensions mm***			
Type Designation	Nominal Capacity	h. 150	h1: 401	Weight in kg**	
Designation	Ah (C₅)*	b: 158	h2: 428	ĸġ	
			I		
2 PzB 110	110	45		7.9	
3 PzB 165	165	6	61	11.0	
4 PzB 220	220	7	7	14.0	
5 PzB 275	275	9	93	17.1	
6 PzB 330	330	10)9	20.1	
7 PzB 385	385	125		23.2	
8 PzB 440	440	141		26.2	
9 PzB 495	495	15	57	29.2	
10 PzB 550	550	17	73	32.3	

Plate Type: 65 Ah					
		max cell dimensions mm***			
Type	Nominal Capacity	b: 158	h1: 457	Weight in	
Designation	Ah (C₅)*		h2: 484	kg**	
		I		I	
2 PzB 130	130	45		9.1	
3 PzB 195	195	6	61	12.5	
4 PzB 260	260	7	7	16.1	
5 PzB 325	325	9	93	19.5	
6 PzB 390	390	10)9	23.0	
7 PzB 455	455	12	25	26.5	
8 PzB 520	520	141		30.1	
9 PzB 585	585	15	57	33.5	
10 PzB 650	650	17	'3	37.0	

Plate Type: 75 Ah					
		max cell dimensions mm***			
Type Designation	Nominal Capacity	h. 150	h1: 514	Weight in kg**	
Designation	Ah (C₅)*	b: 158	h2: 541	ĸġ	
		I			
2 PzB 150	150	4	15	10.3	
3 PzB 225	225	6	61	14.2	
4 PzB 300	300	7	77	18.2	
5 PzB 375	375	9	93	22.2	
6 PzB 450	450	10)9	26.2	
7 PzB 525	525	125		30.2	
8 PzB 600	600	141		34.2	
9 PzB 675	675	15	57	38.2	
10 PzB 750	750	17	73	42.2	

Plate Type: 85 Ah					
		max cell dimensions mm***			
Type	Nominal Capacity	1 450	h1: 570	Weight in	
Designation	Ah (C₅)*	b: 158	h2: 597	kg**	
			I		
2 PzB 170	170	45		11.5	
3 PzB 255	255	6	61	16.2	
4 PzB 340	340	77		20.5	
5 PzB 425	425	ę	93	25.0	
6 PzB 510	510	10)9	29.4	
7 PzB 595	595	12	25	33.8	
8 PzB 680	680	141		38.4	
9 PzB 765	765	157		42.6	
10 PzB 850	850	17	73	47.2	

Plate Type: 100 Ah							
	Nominal Capacity Ah (C₅)*	max cell dimensions mm***					
Type Designation		b: 158	h1: 606	Weight in kg**			
			h2: 633				
		I					
2 PzB 200	200	45		12.3			
3 PzB 300	300	61		16.8			
4 PzB 400	400	77		21.5			
5 PzB 500	500	93		26.1			
6 PzB 600	600	109		30.8			
7 PzB 700	700	125		35.4			
8 PzB 800	800	141		40.1			
9 PzB 900	900	157		44.5			
10 PzB 1000	1000	173		48.9			

$\begin{array}{ c c c c c } \hline \mbox{Type} \\ \mbox{Designation} & $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$	Plate Type: 105 Ah							
type Designation Capacity Ah (C ₅)* h1: 686 b: 158 Weight in h2: 713 2 PzB 210 210 45 14.1 3 PzB 315 315 61 19.4 4 PzB 420 420 77 24.8 5 PzB 525 525 93 30.1 6 PzB 630 630 109 35.4		Capacity						
All (C5) h2: 713 I I 2 PZB 210 210 45 14.1 3 PZB 315 315 61 19.4 4 PZB 420 420 5 PZB 525 525 93 30.1 6 PZB 630 630			b: 158	h1: 686				
2 PzB 210 210 45 14.1 3 PzB 315 315 61 19.4 4 PzB 420 420 77 24.8 5 PzB 525 525 93 30.1 6 PzB 630 630 109 35.4				h2: 713				
3 PzB 315 315 61 19.4 4 PzB 420 420 77 24.8 5 PzB 525 525 93 30.1 6 PzB 630 630 109 35.4				I				
4 PzB 420 420 77 24.8 5 PzB 525 525 93 30.1 6 PzB 630 630 109 35.4	2 PzB 210	210	45		14.1			
5 PzB 525 525 93 30.1 6 PzB 630 630 109 35.4	3 PzB 315	315	61		19.4			
6 PzB 630 630 109 35.4	4 PzB 420	420	77		24.8			
	5 PzB 525	525	93		30.1			
7 D-D 725 725 105 40.0	6 PzB 630	630	109		35.4			
1 - 20 / 33 / 133 / 125 / 40.9	7 PzB 735	735	125		40.9			
8 PzB 840 840 141 46.3	8 PzB 840	840	141		46.3			
9 PzB 945 945 157 52.5	9 PzB 945	945	157		52.5			
10 PzB 1050 1050 173 58.4	10 PzB 1050	1050	173		58.4			

* According to IEC 60254- Part 1

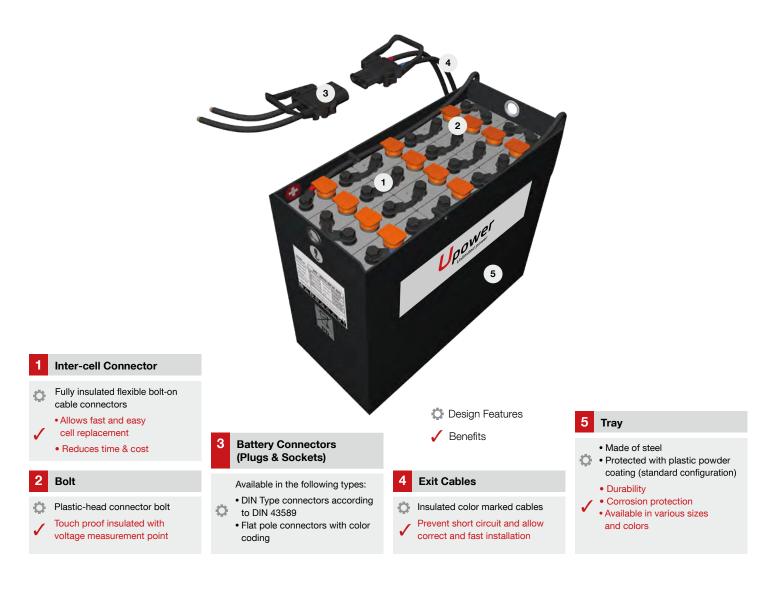
** Filled and charged cell weights $\pm~5\%$

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

Applications



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



Complete Battery Features



 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