

# Motive Power Lead Acid Traction Battery

Battery Type	Rated Capacity(Ah)		Overall Dimension(mm)				Weight(kg)		Post Q'ty	
	5hr	6hr	L	W	H	TH	DRY	WET		
VCA	180	180	-	109	158	295	328	9.5	12	2
	216	216	-	109	158	295	328	11.8	14.8	2
	238	238	-	141	158	295	328	12.8	16	2
	252	252	-	125	158	295	328	13.5	17	2
	288	288	-	141	158	295	328	15.7	19.5	2
	324	324	-	157	158	295	328	17.5	22	2
	360	360	-	173	158	295	328	21	24.5	2
VCC	120	120	-	61	158	328	361	6.6	8.2	2
	160	160	-	77	158	328	361	8.7	10.8	2
	200	200	-	93	158	328	361	10.5	13.5	2
	240	240	-	109	158	328	361	12.5	16	2
	280	280	-	125	158	328	361	14.8	18.6	2
	320	320	-	141	158	328	361	17.2	21.5	2
	360	360	-	157	158	328	361	19	24	2
VCD	400	400	-	173	158	328	361	21.5	27	2
	6	280	-	125	158	348	381	13.6	17.1	2
	8	360	-	141	158	348	381	19	24	2
	12	516	-	241	158	348	381	27.7	34.8	2
	150	150	170	61	158	395	428	9.2	11.5	2
	3A	165	-	61	158	393	426	10.1	12.6	2
	200	200	-	77	158	395	428	10.4	13.2	2
VCDH	48N	216	-	33	158	393	426	11.2	14.2	2
	250	250	-	93	158	395	428	12.5	16.5	2
	270	250	270	109	158	395	428	12.6	17	2
	300	300	-	109	158	395	428	15	19.6	2
	320	320	-	125	158	374	407	16	20.9	2
	350	350	-	125	158	395	428	17.4	22.6	2
	360	360	-	125	158	374	407	17.9	23.2	2
VCE	400	400	-	141	158	395	428	19.7	25.5	2
	450	450	-	157	158	395	428	23.2	29.5	2/4
	500	500	-	173	158	395	428	24.6	32	2/4
	550	550	-	185	158	395	428	27.2	34.5	4
	600	600	-	204	158	395	428	29.5	37.5	4
	175	175	-	61	158	409	442	8.9	11	2
	232	232	-	77	158	409	442	11.5	14.5	2
VCG	290	290	-	93	158	409	442	14.3	17.8	2
	350	350	-	109	158	409	442	17.2	21.5	2
	400	400	-	125	158	409	442	20.2	25	2
	460	460	-	141	158	409	442	22.5	28	2/4
	520	520	-	157	158	409	442	25.7	32	2/4
	580	580	-	173	158	409	442	28.4	35.5	2/4
	630	630	-	185	158	409	442	30.5	38.5	4
VGD	700	700	-	204	158	409	442	34	42.5	4
	180	180	-	61	158	453	486	9.8	12.3	2
	240	240	-	77	158	453	486	13	16.2	2
	300	300	-	93	158	453	486	15.4	19.5	2
	360	360	-	109	158	453	486	18.5	23.5	2
	420	420	-	125	158	453	486	21.4	27	2/4
	480	480	-	141	158	453	486	24	30.5	2/4
VGE	540	540	-	157	158	453	486	26.5	34	2/4
	600	600	-	173	158	453	486	29	38	2/4
	660	660	-	185	158	453	486	31.2	40.5	4
	715	-	204	158	453	486	34	44	4	

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# Motive Power Lead Acid Traction Battery

Battery Type	Rated Capacity(Ah)		Overall Dimension(mm)				Weight(kg)		Post Q'ty	
	5hr	6hr	Length	Width	Container's Height	Total Height	DRY	WET		
VCE	737	720	737	204	158	453	486	34.2	44.3	4
	715	660	715	237	158	453	486	31.6	43.5	4
	720	720	770	237	158	453	486	34.4	45.9	4
	740	740	-	237	158	453	486	35.2	46.4	4
	800	800	-	237	158	453	486	37.3	48.5	4
	880	840	880	237	158	453	486	39	49.9	4
	850	850	-	237	158	453	486	39.4	50.2	4
	3A 201/210	210	-	61	158	490	523	11	13.8	2
	268/280	280	-	77	158	490	523	13.8	17.5	2
	280	280	-	90	158	490	523	14	18.5	2
VCF	320	320	-	90/93	158	490	523	16.6	21.4	2
	335	335	-	93	158	490	523	16.9	21.7	2
	350	350	-	109	158	490	523	17	22.5	2
	6A	390	-	109	158	490	523	18.9	25	2
	400/420	420	-	109	158	490	523	20	25.5	2
	490	490	-	125	158	490	523	24	30.5	2/4
	545	545	-	141	158	490	523	25.2	34	2/4
	630	630	-	157	158	490	523	29	38	4
	10A	650	-	173	158	490	523	29.9	39.2	4
	700	700	-	173	158	490	523	33.5	42.2	4
VCH	3A	300	-	61	158	698	731	16	20.5	2
	4S	360	-	71	158	698	731	18.2	23	2
	150/160	160	-	45	158	519	552	8.7	10.8	2
	220 / 3A / 230	230	-	61	158	519	552	12.8	16	2
	288/300	300	-	77	158	519	552	15.5	19.6	2
	335	300	335	90	158	519	552	16	20.5	2
	4	312	-	90	158	519	552	16.6	21.3	2
	365/375	375	-	93	158	519	552	19	24	2
	440	440	-	109	158	519	552	22	28	2/4
	546	546	-	125	158	519	552	26.2	34	2/4
VCI	490	490	-	125	158	519	552	26	32.2	2/4
	505	505	-	125	158	519	552	26.2	32.5	2/4
	575/585	585	-	141	158	519	552	29.2	36.5	2/4
	595	546	595	141	158	519	552	26.5	34.2	2/4
	660	630	660	157	158	519	552	31	39	2/4
	710	670	710	185	158	519	552	33.2	42	4
	770	701	770	185	158	519	552	35	44	4
	845	845	-	185	158	519	552	38	48.7	4
	850	780	850	204	158	519	552	36	46.5	4
	11	858	-	204	158	519	552	38.5	49.4	4
VCJ	900	900	-	204	158	519	552	42	53	4
	990	990	-	221	158	519	552	48	60	4
	1080	1080	-	237	158	519	552	51.2	65.4	4
	1200	1200	-	244	158	519	552	56	76	4
	300	300	-	61	158	690	723	16	20	2
	400	400	-	77	158	690	723	19.5	25	2
	500	500	-	93	158	690	723	24	30	2
	600	600	-	109	158	690	723	28.5	36	2/4
	700	700	-	125	158	690	723	33	42	4
	800	800	-	141	158	690	723	38	48	4
VGC	900	900	-	157	158	690	723	43	54	4
	1000	1000	-	173	158	690	723	48	60	4
	1100	1100	-	189	158	690	723	52	66	4
	225	225	-	90	158	328	361	12.8	16	2
	520	520	-	185	158	328	361	24.9	31.2	2/4
	415	415	-	125	158	393	426	20.2	25.9	2
	470	470	-	141	158	393	426	22.5	28.2	2
	485	485	-	141	158	408	441	23.2	29.1	2
	545	545	-	157	158	408	441	26.1	32.7	2
	600	600	-	173	158	408	441	28.5	36	2/4
VGF	245	245	-	77	158	453	486	13.6	17	2
	220	220	-	61	158	488	521	12.8	16	2
	280	280	-	77	158	510	543	15	19	2
	370	370	-	93	158	488	521	18.7	23.6	2
	445	445	-	109	158	488	521	22.2	28.3	2
	530	530	-	125	158	488	521	25.7	33.1	2
	605	605	-	141	158	488	521	28.7	36.4	2/4
	730	730	-	173	158	488	521	34.4	43.8	4
	785	785	-	185	158	488	521	37.2	47.1	4
	865	865	-	204	158	488	521	41.3	51.9	4
VGI	935	935	-	221	158	488	521	44.6	56.1	4
	240	240	-	61	158	517	550	13.3	16.7	2
	285	285	-	77	158	517	550	14.2	18.8	2
	370	370	-	90	158	517	550	18.7	23.6	2
	470	470	-	109	158	517	550	23.5	29.9	2
	565	565	-	125	158	517	550	27.4	35.3	2
	645	645	-	141	158	517	550	31.7	39.9	2/4
	725	725	-	157	158	517	550	36.1	45.5	4
	1005	1005	-	221	158	517	550	48.2	60.3	4

# Motive Power Lead Acid Traction Battery

**UKB Co.,Ltd.**  
Unikor Battery co., Ltd.



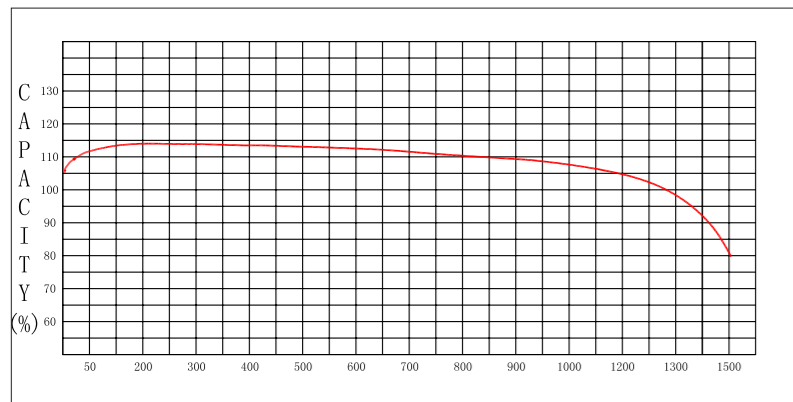
# Motive Power Lead Acid Traction Battery

» UKB offers outstanding performance with long lasting life for Forklift, AGV, Mining car, Sweeping car, Electric Locomotive, etc.

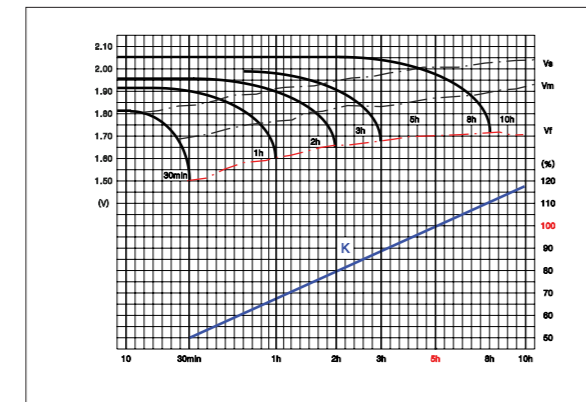
- TUBULAR PLATE FORKLIFT TRACTION BATTERY
- BS / DIN MODEL
- APPLICATION
  - ELECTRIC FORKLIFT
  - MINING VEHICLES
  - ELECTRIC RAILWAY TRAILER
- PRODUCTS RANGE
  - 2V , 120AH ~ 1680AH / 5HRS
  - BS MODEL / DIN MODEL
  - LEAD WELDING / BOLT WITH CABLE FIXING
  - CYCLE LIFE : 1,500 CYCLES AT D.O.D 80% DISCHARGE CONDITION

- DISCHARGE CHARACTERISTICS DEPENDS ON DISCHARGE TIME
- Vm : Medium Discharge Voltage (V)
- Vs : Final Discharge Voltage (V)
- V : Initial Discharge Voltage (V)
- K : The "K" curve shows the 5 hour capacity of the cell in %

## CURVE OF LIFE CYCLE



## DISCHARGE CHARESTRICS



From the Fig. the value of current (A) in each discharge rate of a storage battery of which 5 hour rate capacity is 400 Ah is as shown below.

- 6 hour rate (6 hr, 1.70VPC) = 400Ah x 1.04C/6 = 69A
- 5 hour rate (5 hr, 1.70VPC) = 400Ah x 1.00C/5 = 80A
- 3 hour rate (3 hr, 1.65VPC) = 400Ah x 0.85/3 = 133A
- 2 hour rate (2 hr, 1.65VPC) = 400Ah x 0.75C/2 = 150A
- 1 hour rate (1 hr, 1.55VPC) = 400Ah x 1.60C/1 = 240A

As seen from the above description, the more frequently the filing work is made or the high speed running is made in the operation of a electric truck, the shorter the available working time of storage battery becomes



# Motive Power Lead Acid Traction Battery

## » Traction Battery Technical specifications

Battery Type	Rated Capacity (Ah/5HR)	Overall Dimension				Reference weight(kg)		Post' Q'ty
		L	W	H	H	Dry	Wet	
2PZS 120	120	47	198	360	395	7	9	2
3PZS 180	180	65	198	360	395	9.5	12.5	2
4PZS 240	240	83	198	360	395	12	16	2
5PZS 300	300	101	198	360	395	14.5	19.5	2
6PZS 360	360	119	198	360	395	17	23	2
7PZS 420	420	137	198	360	395	19.5	26.5	2
8PZS 480	480	155	198	360	395	22	30	2
9PZS 540	540	173	198	360	395	24.5	33.5	2/4
10PZS 600	600	191	198	360	395	27	37	2/4
11PZS 660	660	209	198	360	395	29.5	40.5	2/4
12PZS 720	720	227	198	360	395	32	44	4
2PZS 140	140	47	198	405	440	8	10.5	2
3PZS 210	210	65	198	405	440	11	14.5	2
4PZS 280	280	83	198	405	440	14	19	2
5PZS 350	350	101	198	405	440	17	23	2
6PZS 420	420	119	198	405	440	20	27	2
7PZS 490	490	137	198	405	440	23	31	2
8PZS 560	560	155	198	405	440	26	35.5	2/4
9PZS 630	630	173	198	405	440	29	40	2/4
10PZS 700	700	191	198	405	440	32.5	44	2/4
11PZS 770	770	209	198	405	440	36	49	4
12PZS 840	840	227	198	405	440	39	52	4
2PZS 160	160	47	198	450	485	9.5	12.5	2
3PZS 240	240	65	198	450	485	12.5	16.5	2
4PZS 320	320	83	198	450	485	15.5	21	2
5PZS 400	400	101	198	450	485	19	26	2
6PZS 480	480	119	198	450	485	22.5	30.5	2
7PZS 560	560	137	198	450	485	26	35.5	2/4
8PZS 640	640	155	198	450	485	29.5	40.5	2/4
9PZS 720	720	173	198	450	485	33	45	2/4
10PZS 800	800	191	198	450	485	36.5	50.5	4
11PZS 880	880	209	198	450	485	40	55	4
12PZS 960	960	227	198	450	485	43	59	4
2PZS 180	180	47	198	525	560	10	13	2
3PZS 270	270	65	198	525	560	13.5	18	2
4PZS 360	360	83	198	525	560	17	23	2
5PZS 450	450	101	198	525	560	20.5	28	2
6PZS 540	540	119	198	525	560	24	33	2/4
7PZS 630	630	137	198	525	560	27.5	38	2/4
8PZS 720	720	155	198	525	560	31	43	2/4
9PZS 810	810	173	198	525	560	34.5	48	4
10PZS 900	900	191	198	525	560	38	53	4
11PZS 990	990	209	198	525	560	41	57	4
12PZS 1080	1080	227	198	525	560	44	61	4



# Motive Power Lead Acid Traction Battery

## » Traction Battery Technical specifications

Battery Type	Rated Capacity (Ah/5HR)	Overall Dimension				Reference weight(kg)		Post' Q'ty
		L	W	H	H	Dry	Wet	
2PZS 200	200	47	198	560	595	11	14.5	2
3PZS 300	300	65	198	560	595	15	20	2
4PZS 400	400	83	198	560	595	19	25.5	2
5PZS 500	500	101	198	560	595	23	35	2
6PZS 600	600	119	198	560	595	27	37	2/4
7PZS 700	700	137	198	560	595	31	42	2/4
8PZS 800	800	155	198	560	595	35	49	4
9PZS 900	900	173	198	560	595	39	54	4
10PZS 1000	1000	191	198	560	595	43	60	4
11PZS 1100	1100	209	198	560	595	47	65	4
12PZS 1200	1200	227	198	560	595	51	71	4
2PZS 240	240	47	198	690	725	13.5	17.5	2
3PZS 360	360	65	198	690	725	18.5	24.5	2
4PZS 480	480	83	198	690	725	23.5	31.5	2
5PZS 600	600	101	198	690	725	28.5	39	2
6PZS 720	720	119	198	690	725	33.5	46	2/4
7PZS 840	840	137	198	690	725	38.5	53	4
8PZS 960	960	155	198	690	725	43.5	60	4
9PZS 1080	1080	173	198	690	725	48.5	67	4
10PZS 1200	1200	191	198	690	725	53.5	74	4
11PZS 1320	3200	209	198	690	725	58.5	81	4
12PZS 1440	1440	227	198	690	725	63.5	88	4
2PZS 280	280	47	198	720	755	15.5	20	2
3PZS 420	420	65	198	720	755	21	28	2
4PZS 560	560	83	198	720	755	26.5	36	2/4
5PZS 700	700	101	198	720	755	32	44	2/4
6PZS 840	840	119	198	720	755	37.5	51	4
7PZS 980	980	137	198	720	755	43.5	60	4
8PZS 1120	1120	155	198	720	755	50	69	4
9PZS 1260	1260	173	198	720	755	56	78	4
10PZS 1400	1400	191	198	720	755	62	86	4
11PZS 1540	1540	209	198	720	755	68	92	4
12PZS 1680	1680	227	198	720	755	74	98	4

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