100 YEARS

Vantex Range

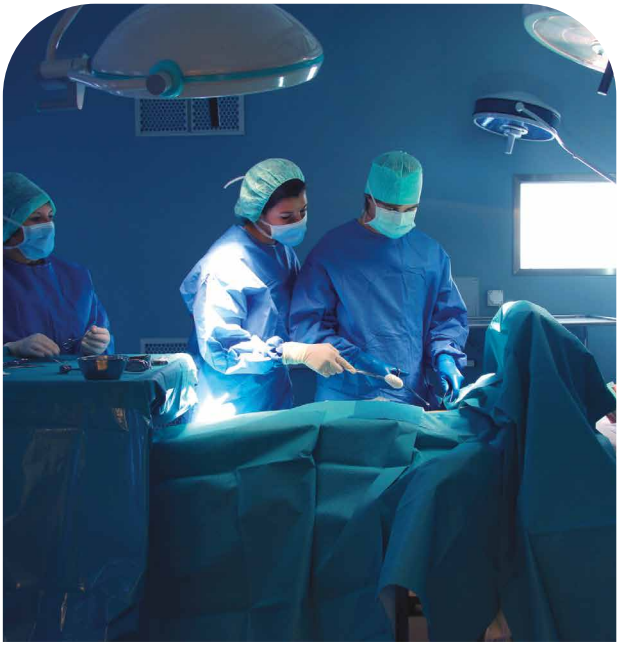
Maintenance-free Ni-Cd **batteries**

Reliability inside

ALCAD

ADVANCED SOLUTIONS | ENGINEERING EXCELLENCE

Your choice for peace of mind



Alcad – providing you with reliable batteries

Since 100 years we've been working alongside our clients – companies at the forefront of their industries - to provide well - established Ni-Cd battery solutions.

Our world-class batteries offer optimum security and availability for stationary applications including power backup, engine starting and bulk energy storage.

The Alcad ethos is to strive to be the best at what we do. Our R&D teams respond pro-actively to evolving technologies and streamline our manufacturing processes, assuring customers benefit from the highest quality products.

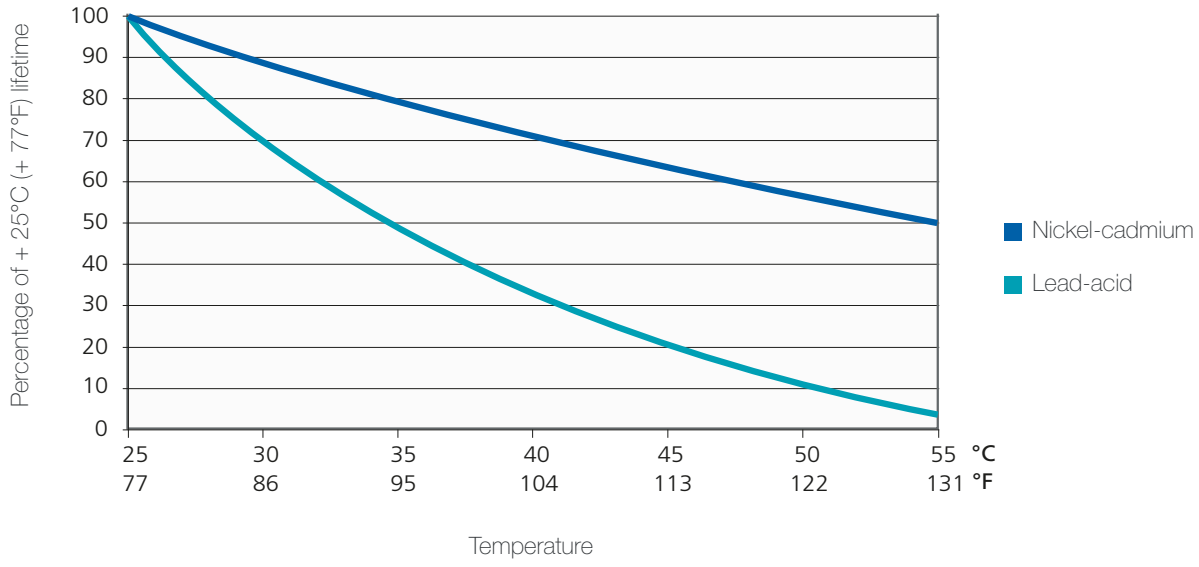
Alcad's fully integrated, worldwide service gives professional support and guidance right from your project's inception, through to supply of the batteries, installation, professional training and end of life recycling.

Vantex gives you complete peace of mind and long life – including operation at high temperatures

Alcad's proven Ni-Cd technology has set the standard in industry for battery performance in challenging environments. Our batteries are renowned for their high performance and reliability, with clients assured of long battery life with no risk of sudden death failure.

Vantex improves on this impressive track-record by providing a service life of over 20 years at + 25°C [+ 77°F]. Even at temperatures up to + 35°C [+ 95°F], battery life drops by only 20%, as opposed to a 50% fall for a lead-acid battery.

Effect of temperature on lifetime



Vantex

Vantex

The 1st Ni-Cd battery operating in narrow DC voltage windows

The maintenance-free solution for stationary applications

Alcad's most recent innovations have brought improved dependability to the world of industrial batteries. The latest Ni-Cd pocket plate technology offers maintenance-free(*) operation, making Vantex the ideal backup power supply.

Important features include its low pressure flame-arresting vent, high electrical performance and chargeability. Vantex batteries deliver exceptional performance for optimal TCO (Total Cost of Ownership).

The perfect fit to replace lead-acid batteries

The last Vantex generation is the perfect fit to replace lead-acid batteries thanks to its 1.39 V/cell single level charge. Its fast recharge enables 95% SOC in 8h at 1.45 V/cell for minimal downtime and optimal availability after a power failure.

Without the need for boost charge, Vantex Ni-Cd batteries can be fitted in all commonly used DC-systems. Dropping diodes or DC/DC converters are less required. Thus, the cost for the DC-system can be reduced as less components are needed.

(*) The term maintenance-free means that no addition of water is necessary during the lifetime of the product, when following Alcad's recommended operating conditions.

Providing optimum, maintenance-free performance

Maintenance-free design keeps running costs down

Vantex's state-of-the-art design concept gives our customers maintenance-free batteries.

• No need to add water throughout the service life of the battery (following Alcad's recommended operating conditions – from - 20°C (- 4°F) to + 40°C (+ 104°F), at 1.39 V/cell .

• Minimal servicing is required with only preventive maintenance needed.

• Water use and gas emissions are reduced due to the high level of gas recombination of more than 95% – far beyond the requirements of IEC 62259.

• Vantex is supplied with a low pressure flame-arresting vent – one that works as a valve regulated vent.

High efficiency optimizes battery life cost

Vantex battery solutions offer high efficiency. Installers can now select a specific battery that fits individual operational requirements, reducing primary purchase costs.

• Vantex design has high battery electrical performance whatever discharge time is needed. This is enabling to use a small battery capacity for an optimized TCO (Total Cost of Ownership).

• Bringing batteries into service is a straightforward procedure. Even after six months of storage, the battery commissioning is easy and simple. It can be performed with any commercial charger.

Fast battery charging reduces downtime

• Single or two-level charging regimes are available:

Single level charge

- 1.42 ± 0.01 or (1.39 ± 0.01) V/cell

Two level charge

- Float level: 1.42 ± 0.01 or (1.39 ± 0.01) V/cell
- High level: 1.45 ± 0.01 V/cell

• The fast recharge enables 95% SOC in 8h at 1.45 V/cell for maximum availability after a power failure, at + 20°C (+ 68°F).

> “Quick and simple charging, inside a narrow voltage window, leads to good availability with minimal downtime”

Vantex

Designed for critical applications

Essential support for vital systems

When you need a power backup system you can trust, you need Vantex.

Our batteries are the essential component in power backup systems across the following industries:

- Oil and gas exploration
- Utilities
- Manufacturing and production

Losing mains power is not a problem for systems with Vantex backup. Our batteries provide a crucial power supply to deliver continuity of mission-critical loads, expedite safe shutdown processes, bridge to standby power and safeguard computer data.

Our batteries are frequently used as backup for:

- UPS
- Substation switchgear
- Process control systems
- Emergency lighting
- Fire alarms
- Security systems

A battery you can trust in the most challenging operating conditions

When safety is of paramount importance, Vantex batteries offer complete reliability, any time, anywhere.

- Our unique Ni-Cd electrochemistry works in conjunction with the tried and tested Alcad pocket plate design to give you absolute peace of mind.
- Vantex batteries are an enduring option with a lifetime service of over 20 years at + 25°C (+ 77°F).
- Strong build quality cuts out the risk of sudden death failure.
- Vantex provides exceptional performance combined with a long service life in temperatures up to + 40°C (+ 104°F), and tolerates - 40°C (- 40°F) to + 70°C (+ 158°F) for short durations.

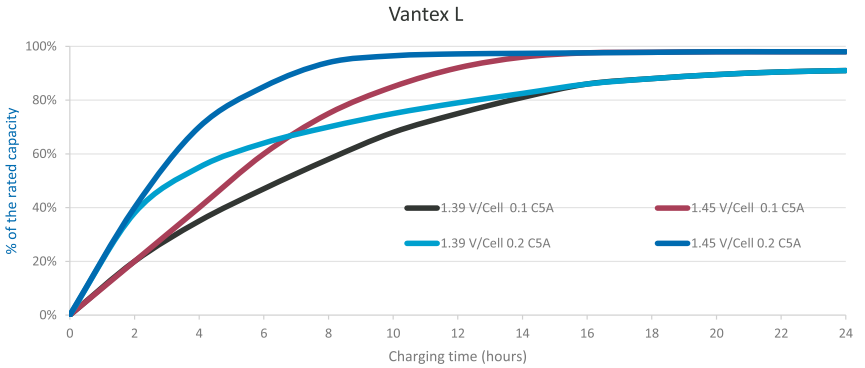
Available capacity after constant voltage charge
Available charge current 0.1 C_5A or 0.2 C_5A at + 20°C (+68°F)

Vantex VTX1 L

L type cell

15 – 1700 Ah

For low rate discharges over long periods between 1 and 100 hours

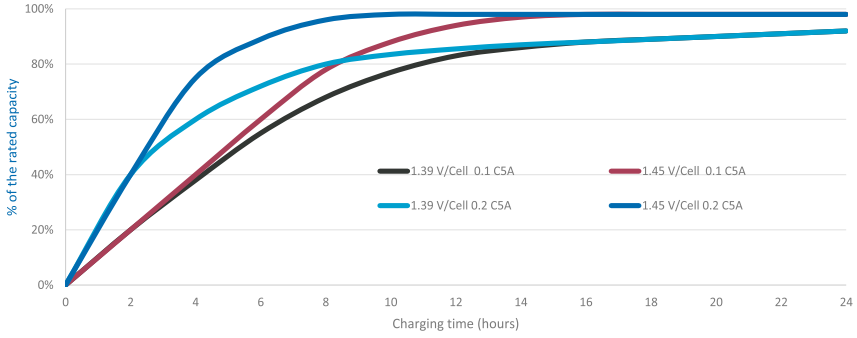


Vantex VTX1 M

M type cell

8 – 1330 Ah

For varied loads with low and high discharge rates, between 30 minutes and 3 hours

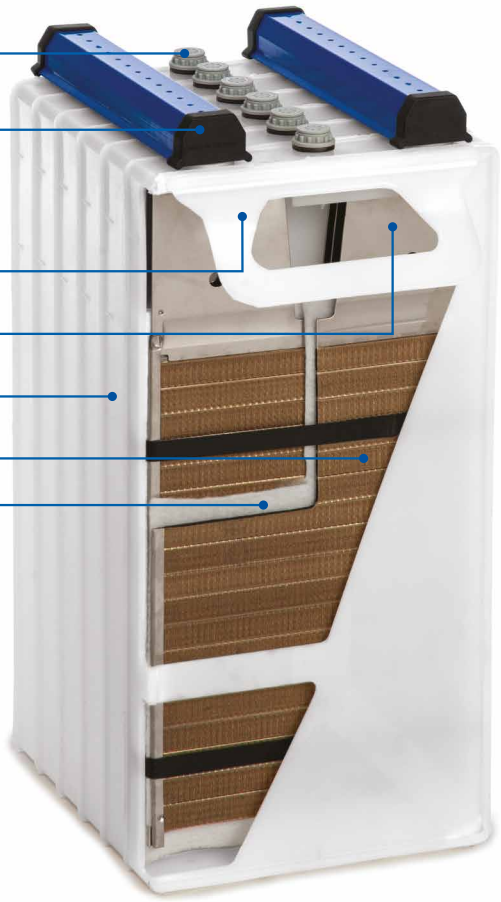


Our straightforward design promotes smooth handling, fitting and operation

- All batteries arrive filled with electrolyte and ready charged.
- The batteries have a long storage period of up to two years in normal conditions, and can be stored at elevated temperatures in certain circumstances.
- Up to ten cells can be configured into single integrated blocks connected in series.
- Adaptable block configuration allows for quick and simple installation.

> “A simple approach: our modular system allows versatile block configurations”

Vantex construction features



Cells are welded together into a block, up to a maximum of ten cells, subject to cell size and type.

Vantex

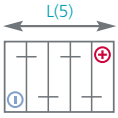
Adaptable block configurations

With single pole bolts

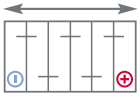
VTX1 L 15-62, VTX1 L 95, VTX1 L 140-280
VTX1 M 8-48, VTX1 M 75-220

L(4)

L(5)

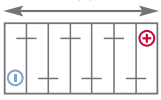


L(6)

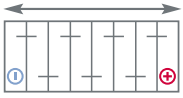


VTX1 L 15-62 VTX1 M 8-48

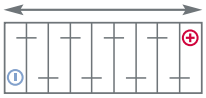
L(7)



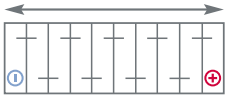
L(8)



L(9)



L(10)

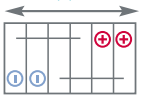


With double pole bolts

VTX1 L 325-370 VTX1 M 245-445

L(2)

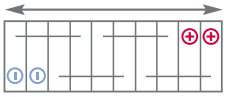
L(3)



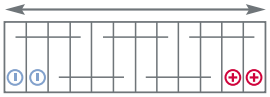
VTX1 L 75, VTX1 L 110, VTX1 M 65

L(4)

L(5)



L(6)



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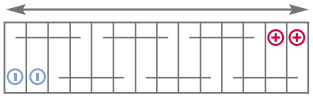


With 2-6 bolts per pole, crosswise mounted on racks

VTX1 L 515-560

L(1)

VTX1 L 610-840
VTX1 M 490-640

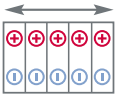
L(1)

VTX1 L 890-1120
VTX1 M 690-885

L(1)

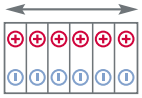
VTX1 L 1220-1400
VTX1 M 935-1030

L(1)



VTX1 L 1500-1700
VTX1 M 1130-1330

L(1)

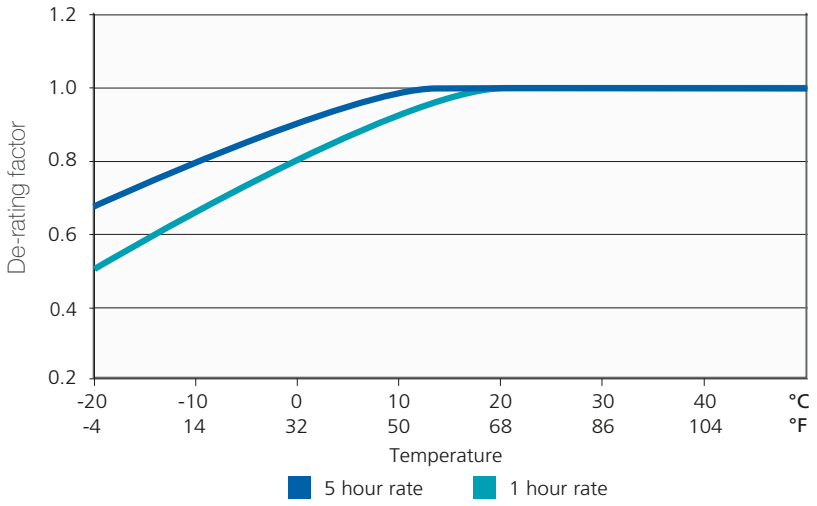


The practical choice straightforward - usage and installation

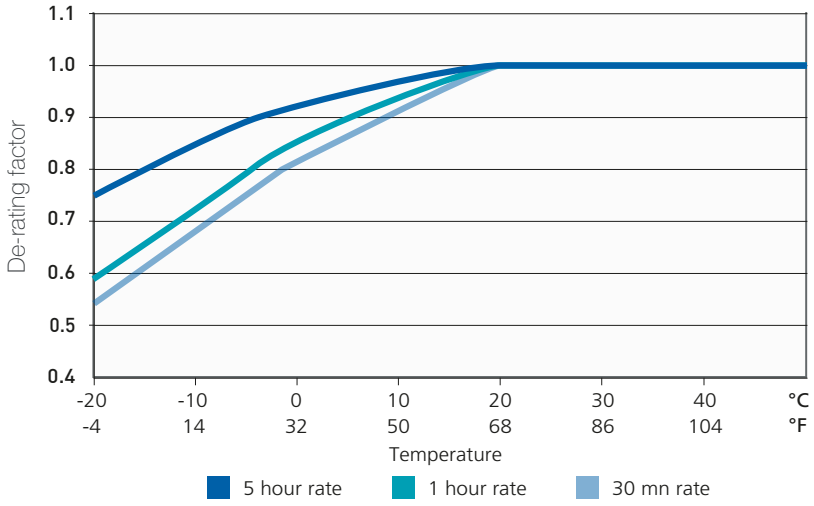
Batteries with a wide range of specifications

- The capacity of Vantex batteries extends from 8 – 1700 Ah in a choice of two ranges.
- VTX1 L energy range, optimized for long discharge periods with a relatively low current.
- VTX1 M medium power range, especially designed for mixed loads with varying current.

Temperature de-rating factors for L type cell



Temperature de-rating factors for M type cell



> The Vantex battery design meets the highest international quality, safety and environmental standards

Electrical specifications

• Certified IEC 62259 – Secondary cells and batteries containing alkaline or other non-acid electrolytes – Nickel-cadmium prismatic secondary single cells with partial gas recombination. Vantex exceeds gas recombination requirements.

• Certified IEC 60623 – Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells.

Safety

• Complies with EN 50272-2 / IEC 62485-2 – Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries – The protective covers for terminals and connectors, the insulated cables are compliant with IP2X level protection against electrical shocks according to safety standard.

Quality

• ISO 9001 and ISO 14001

• Alcad world class continuous programme

Environment & Recycling

• Fully recyclable

• RoHS – Despite batteries and accumulators not being within the remit of the RoHS directive, Alcad has taken voluntary steps to ensure that the substances forbidden by RoHS are not present in the battery, except in the electro-chemical core.

• REACH – Alcad has agreed internal procedures to conform to the European REACH (Registration,` Evaluation, Authorisation and Restriction of Chemical Substances) Regulation.

Tailored support for all our customers from start to finish

Customers around the globe come to Alcad for the ideal battery solution for their individual requirements.

Our experienced stationary battery experts work on everything from the initial design through to installation and commissioning.

And our after-sales support assists with maintenance, diagnostic services and end of life recycling.

Alcad also provides battery training seminars for relevant personnel as required.

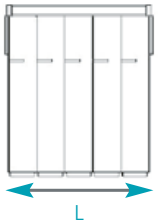
As our customer base grows, we are continuing to expand our network of approved service stations in the Middle East, Asia and North America, to give the best possible service, worldwide.

Vantex

L range

Cell dimensions and internal resistance

L Type	Capacity	Height		Width		Lenght per block																				Approx. Weight per cell		Internal Resistance	Cell connection bolt per pole
						1 cell		2 cells		3 cells		4 cells		5 cells		6 cells		7 cells		8 cells		9 cells		10 cells					
	C5 Ah	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	mOhm	
VTX1 L 15	15	270	10,6	123	4,8							123	4,8	153	6,0	182	7,2	212	8,3	241	9,5	271	10,6	300	11,8	1,1	2,4	12,07	M6
VTX1 L 30	30	270	10,6	123	4,8							143	5,6	178	7,0	212	8,3	247	9,7	281	11,1	316	12,4	350	13,8	1,8	4,0	6,03	M6
VTX1 L 47	47	270	10,6	123	4,8							191	7,5	238	9,4	284	11,2	331	13,0	377	14,8	424	16,7	470	18,5	2,5	5,5	3,85	M6
VTX1 L 57	57	270	10,6	123	4,8							239	9,4	298	11,7	356	14,0	415	16,3	473	18,6	532	20,9	590	23,2	3,1	6,8	3,18	M6
VTX1 L 62	62	270	10,6	123	4,8							239	9,4	298	11,7	356	14,0	415	16,3	473	18,6	532	20,9	590	23,2	3,2	7,1	2,92	M6
VTX1 L 75	75	270	10,6	123	4,8							329	13,0	410	16,1	491	19,3	572	22,5							4,3	9,5	2,41	2xM6
VTX1 L 83	83	421	16,6	195	7,7							157	6,2	193	7,6	229	9,0									4,8	10,6	2,92	M8
VTX1 L 95	95	421	16,6	195	7,7							157	6,2	193	7,6	229	9,0									4,9	10,8	2,55	M8
VTX1 L 102	102	270	10,6	123	4,8							425	16,7	530	20,9	635	25,0	740	29,1							5,7	12,6	1,77	2xM6
VTX1 L 110	110	270	10,6	123	4,8							425	16,7	530	20,9	635	25,0	740	29,1							5,7	12,6	1,65	2xM6
VTX1 L 124	124	421	16,6	195	7,7							205	8,1	253	10,0	301	11,9									6,6	14,6	1,95	M10
VTX1 L 140	140	421	16,6	195	7,7							205	8,1	253	10,0	301	11,9									6,7	14,8	1,73	M10
VTX1 L 167	167	421	16,6	195	7,7							253	10,0	313	12,3	373	14,7									8,3	18,3	1,45	M10
VTX1 L 185	185	421	16,6	195	7,7							253	10,0	313	12,3	373	14,7									8,4	18,5	1,31	M10
VTX1 L 210	210	421	16,6	195	7,7							305	12,0	378	14,9	451	17,8									9,6	21,2	1,15	M10
VTX1 L 225	225	421	16,6	195	7,7							305	12,0	378	14,9	451	17,8									9,7	21,4	1,08	M10
VTX1 L 235	235	421	16,6	195	7,7							305	12,0	378	14,9	451	17,8									9,9	21,8	1,03	M10
VTX1 L 250	250	421	16,6	195	7,7							353	13,9	438	17,2	523	20,6									11,4	25,1	0,97	M10
VTX1 L 280	280	421	16,6	195	7,7							353	13,9	438	17,2	523	20,6									11,5	25,4	0,86	M10
VTX1 L 294	294	421	16,6	195	7,7			229	9,0	337	13,3															14,9	32,8	0,82	2xM10
VTX1 L 325	325	421	16,6	195	7,7			229	9,0	337	13,3															15,1	33,3	0,74	2xM10
VTX1 L 350	350	421	16,6	195	7,7			253	10,0	373	14,7															16,7	36,8	0,69	2xM10
VTX1 L 375	375	421	16,6	195	7,7			253	10,0	373	14,7															16,8	37,0	0,65	2xM10
VTX1 L 420	420	421	16,6	195	7,7	146	5,7	279	11,0	412	16,2															18,3	40,3	0,58	2xM10
VTX1 L 454	454	421	16,6	195	7,7	159	6,3	305	12,0	451	17,8															19,5	43,0	0,53	2xM10
VTX1 L 470	470	421	16,6	195	7,7	159	6,3	305	12,0	451	17,8															19,8	43,7	0,51	2xM10
VTX1 L 500	500	421	16,6	195	7,7	171	6,7																			21,2	46,7	0,48	2xM10
VTX1 L 515	515	411	16,2	195	7,7	171	6,7																			21,4	47,2	0,47	2xM10
VTX1 L 560	560	411	16,2	195	7,7	183	7,2																			23,0	50,7	0,43	2xM10
VTX1 L 589	589	411	16,2	195	7,7	207	8,1																			26,2	57,8	0,41	3xM10
VTX1 L 610	610	411	16,2	195	7,7	207	8,1																			26,5	58,4	0,40	3xM10
VTX1 L 650	650	411	16,2	195	7,7	219	8,6																			28,2	62,2	0,37	3xM10
VTX1 L 664	664	411	16,2	195	7,7	219	8,6																			28,5	62,8	0,36	3xM10
VTX1 L 700	700	411	16,2	195	7,7	232	9,1																			29,7	65,5	0,35	3xM10
VTX1 L 725	725	411	16,2	195	7,7	243	9,6																			31,2	68,8	0,33	3xM10
VTX1 L 750	750	411	16,2	195	7,7	243	9,6																			31,4	69,2	0,32	3xM10
VTX1 L 775	775	411	16,2	195	7,7	256	10,1																			32,6	71,9	0,31	3xM10
VTX1 L 800	800	411	16,2	195	7,7	256	10,1																			32,9	72,5	0,30	3xM10
VTX1 L 840	840	411	16,2	195	7,7	268	10,6																			34,5	76,1	0,29	3xM10
VTX1 L 870	870	411	16,2	195	7,7	292	11,5																			37,5	82,7	0,28	4xM10
VTX1 L 890	890	411	16,2	195	7,7	292	11,5																			38,1	84,0	0,27	4xM10
VTX1 L 914	914	411	16,2	195	7,7	305	12,0																			39,2	86,4	0,26	4xM10
VTX1 L 940	940	411	16,2	195	7,7	305	12,0																			39,6	87,3	0,26	4xM10
VTX1 L 980	980	411	16,2	195	7,7	316	12,4																			41,2	90,8	0,25	4xM10
VTX1 L 990	990	411	16,2	195	7,7	316	12,4																			41,8	92,2	0,24	4xM10
VTX1 L 1010	1010	411	16,2	195	7,7	328	12,9																			42,2	93,0	0,24	4xM10
VTX1 L 1030	1030	411	16,2	195	7,7	328	12,9																			42,9	94,6	0,23	4xM10
VTX1 L 1080	1080	411	16,2	195	7,7	341	13,4																			45,3	99,9	0,22	4xM10
VTX1 L 1120	1120	411	16,2	195	7,7	353	13,9																			46,0	101,4	0,22	4xM10
VTX1 L 1180	1180	411	16,2	195	7,7	378	14,9																			49,5	109,1	0,21	5xM10
VTX1 L 1220	1220	411	16,2	195	7,7	388	15,3																			51,3	113,1	0,20	5xM10
VTX1 L 1260	1260	411	16,2	195	7,7	402	15,8																			53,3	117,5	0,19	5xM10
VTX1 L 1300	1300	411	16,2	195	7,7	413	16,3																			54,4	119,9	0,19	5xM10
VTX1 L 1324	1324	411	16,2	195	7,7	413	16,3																			55,7	122,8	0,18	5xM10
VTX1 L 1350	1350	411	16,2	195	7,7	426	16,8																			57,1	125,9	0,18	5xM10
VTX1 L 1400	1400	411	16,2	195	7,7	438	17,2																			57,5	126,8	0,17	5xM10
VTX1 L 1460	1460	411	16,2	195	7,7	463	18,2																			61,3	135,1	0,17	6xM10
VTX1 L 1500	1500	411	16,2	195	7,7	473	18,6																			62,8	138,4	0,16	6xM10
VTX1 L 1540	1540	411	16,2	195	7,7	487	19,2																			64,5	142,2	0,16	6xM10
VTX1 L 1570	1570	411	16,2	195	7,7	498	19,6																			65,0	143,3	0,15	6xM10
VTX1 L 1600	1600	411	16,2	195	7,7	498	19,6																			65,9	145,3	0,15	6xM10
VTX1 L 1700	1700	411	16,2	195	7,7	523	20,6																			69,0	152,1	0,14	6xM10



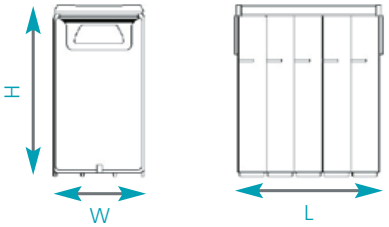
the block. All tabulated dimensions are maximum values.

Vantex

M range

Cell dimensions and internal resistance

M Type	Capacity	Height		Width		Lenght per block																		Approx. Weight per cell		Internal Resistance	Cell connection bolt per pole
						1 cell		2 cells		3 cells		4 cells		5 cells		6 cells		7 cells		8 cells		9 cells		10 cells					
	C5 Ah	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	mOhm	
VTX1 M 8	8	270	10,6	123	4,8							123	4,8	153	6,0	182	7,2	212	8,3	241	9,5	271	10,6	300	11,8	1,1	2,4	12,50	M6
VTX1 M 16	16	270	10,6	123	4,8							123	4,8	153	6,0	182	7,2	212	8,3	241	9,5	271	10,6	300	11,8	1,5	3,3	6,25	M6
VTX1 M 24	24	270	10,6	123	4,8							143	5,6	178	7,0	212	8,3	247	9,7	281	11,1	316	12,4	350	13,8	1,8	4,0	4,17	M6
VTX1 M 32	32	270	10,6	123	4,8							191	7,5	238	9,4	284	11,2	331	13,0	377	14,8	424	16,7	470	18,5	2,5	5,5	3,13	M6
VTX1 M 40	40	270	10,6	123	4,8							239	9,4	298	11,7	356	14,0	415	16,3	473	18,6	532	20,9	590	23,2	3,3	7,2	2,50	M6
VTX1 M 48	48	270	10,6	123	4,8							239	9,4	298	11,7	356	14,0	415	16,3	473	18,6	532	20,9	590	23,2	3,3	7,3	2,08	M6
VTX1 M 65	65	270	10,6	123	4,8							377	14,8	470	18,5	563	22,2	656	25,8							5,0	11,0	1,54	2xM6
VTX1 M 75	75	421	16,6	195	7,7							157	6,2	193	7,6	229	9,0									4,9	10,8	1,52	M8
VTX1 M 89	89	270	10,6	123	4,8							473	18,6	590	23,2	707	27,8	824	32,4							6,6	14,6	1,12	2xM6
VTX1 M 96	96	270	10,6	123	4,8							473	18,6	590	23,2	707	27,8	824	32,4							6,7	14,8	1,04	2xM6
VTX1 M 100	100	421	16,6	195	7,7							187	7,4	231	9,1	274	10,8									6,3	13,9	1,14	M8
VTX1 M 114	114	421	16,6	195	7,7							229	9,0	283	11,1	337	13,3									7,5	16,4	1,00	M10
VTX1 M 125	125	421	16,6	195	7,7							229	9,0	283	11,1	337	13,3									7,6	16,8	0,91	M10
VTX1 M 140	140	421	16,6	195	7,7							253	10,0	313	12,3	373	14,7									8,2	18,1	0,81	M10
VTX1 M 150	150	421	16,6	195	7,7							253	10,0	313	12,3	373	14,7									8,4	18,5	0,76	M10
VTX1 M 170	170	421	16,6	195	7,7							305	12,0	378	14,9	451	17,8									9,9	21,8	0,67	M10
VTX1 M 175	175	421	16,6	195	7,7							305	12,0	378	14,9	451	17,8									10,2	22,5	0,65	M10
VTX1 M 195	195	421	16,6	195	7,7							353	13,9	438	17,2	523	20,6									11,5	25,4	0,58	M10
VTX1 M 209	209	421	16,6	195	7,7							353	13,9	438	17,2	523	20,6									11,7	25,9	0,55	M10
VTX1 M 220	220	421	16,6	195	7,7							353	13,9	438	17,2	523	20,6									12,0	26,5	0,52	M10
VTX1 M 238	238	421	16,6	195	7,7			229	9,0	337	13,3															14,9	32,8	0,48	2xM10
VTX1 M 245	245	421	16,6	195	7,7			229	9,0	337	13,3															15,2	33,5	0,47	2xM10
VTX1 M 263	263	421	16,6	195	7,7			241	9,5	355	14,0															15,7	34,6	0,43	2xM10
VTX1 M 270	270	421	16,6	195	7,7			241	9,5	355	14,0															16,0	35,3	0,42	2xM10
VTX1 M 285	285	421	16,6	195	7,7			253	10,0	373	14,7															16,5	36,3	0,40	2xM10
VTX1 M 295	295	421	16,6	195	7,7			253	10,0	373	14,7															16,8	37,0	0,39	2xM10
VTX1 M 310	310	421	16,6	195	7,7			279	11,0	412	16,2															17,9	39,5	0,37	2xM10
VTX1 M 320	320	421	16,6	195	7,7			279	11,0	412	16,2															18,3	40,3	0,36	2xM10
VTX1 M 332	332	421	16,6	195	7,7			305	12,0	451	17,8															19,6	43,2	0,34	2xM10
VTX1 M 345	345	421	16,6	195	7,7			305	12,0	451	17,8															19,8	43,7	0,33	2xM10
VTX1 M 358	358	421	16,6	195	7,7			329	13,0	487	19,2															21,2	46,7	0,32	2xM10
VTX1 M 370	370	421	16,6	195	7,7			329	13,0	487	19,2															21,4	47,2	0,31	2xM10
VTX1 M 382	382	421	16,6	195	7,7			353	13,9	523	20,6															22,8	50,3	0,30	2xM10
VTX1 M 395	395	421	16,6	195	7,7			353	13,9	523	20,6															23,0	50,7	0,29	2xM10
VTX1 M 420	420	421	16,6	195	7,7			353	13,9	523	20,6															23,5	51,8	0,27	2xM10
VTX1 M 434	434	421	16,6	195	7,7			353	13,9	523	20,6															23,7	52,2	0,26	2xM10
VTX1 M 445	445	421	16,6	195	7,7			353	13,9	523	20,6															24,0	52,9	0,26	2xM10
VTX1 M 461	461	411	16,2	195	7,7	206	8,1																			26,4	58,2	0,25	3xM10
VTX1 M 475	475	411	16,2	195	7,7	206	8,1																			27,0	59,5	0,24	3xM10
VTX1 M 490	490	411	16,2	195	7,7	219	8,6																			28,2	62,2	0,23	3xM10
VTX1 M 502	502	411	16,2	195	7,7	232	9,1																			29,5	65,0	0,23	3xM10
VTX1 M 517	517	411	16,2	195	7,7	232	9,1																			30,4	67,0	0,22	3xM10
VTX1 M 530	530	411	16,2	195	7,7	243	9,6																			31,0	68,3	0,22	3xM10
VTX1 M 540	540	411	16,2	195	7,7	243	9,6																			31,4	69,2	0,21	3xM10
VTX1 M 553	553	411	16,2	195	7,7	244	9,6																			31,6	69,7	0,21	3xM10
VTX1 M 569	569	411	16,2	195	7,7	244	9,6																			32,6	71,9	0,20	3xM10
VTX1 M 590	590	411	16,2	195	7,7	268	10,6																			34,5	76,1	0,19	3xM10
VTX1 M 604	604	411	16,2	195	7,7	268	10,6																			34,5	76,1	0,14	3xM10
VTX1 M 620	620	411	16,2	195	7,7	268	10,6																			34,9	76,9	0,18	3xM10
VTX1 M 630	630	411	16,2	195	7,7	268	10,6																			35,2	77,6	0,18	3xM10
VTX1 M 640	640	411	16,2	195	7,7	268	10,6																			35,5	78,3	0,18	3xM10
VTX1 M 656	656	411	16,2	195	7,7	268	10,6																			35,4	78,0	0,17	3xM10
VTX1 M 675	675	411	16,2	195	7,7	268	10,6																			36,0	79,4	0,17	3xM10
VTX1 M 690	690	411	16,2	195	7,7	305	12,0																			39,6	87,3	0,17	4xM10
VTX1 M 715	715	411	16,2	195	7,7	317	12,5																			41,6	91,7	0,16	4xM10
VTX1 M 740	740	411	16,2	195	7,7	328	12,9																			42,8	94,4	0,15	4xM10
VTX1 M 752	752	411	16,2	195	7,7	317	12,5																			44,2	97,4	0,15	4xM10
VTX1 M 772	772	411	16,2	195	7,7	329	13,0																			43,1	95,0	0,15	4xM10
VTX1 M 785	785	411	16,2	195	7,7	353	13,9																			46,0	101,4	0,15	4xM10
VTX1 M 810	810	411	16,2	195	7,7	328	12,9																			44,1	97,2	0,14	4xM10
VTX1 M 835	835	411	16,2	195	7,7	341	13,4																			45,9	101,2	0,14	4xM10
VTX1 M 860	860	411	16,2	195	7,7	353	13,9																			47,5	104,7	0,13	4xM10
VTX1 M 885	885	411	16,2	195	7,7	353	13,9																			48,0	105,8	0,13	4xM10
VTX1 M 915	915	411	16,2	195	7,7	402	15,8																			53,5	117,9	0,12	5xM10
VTX1 M 935	935	411	16,2	195	7,7	413	16,3																			54,4	119,9	0,12	5xM10
VTX1 M 960	960	411	16,2	195	7,7	388	15,3																			53,2	117,3	0,12	5xM10
VTX1 M 985	985	411	16,2	195	7,7	438	17,2																			57,5	126,8	0,12	5xM10
VTX1 M 1000	1000	411	16,2	195	7,7	407	16,0																			55,6	122,6	0,11	5xM10
VTX1 M 1030	1030	411	16,2	195	7,7	413	16,3																			56,4	124,3	0,11	5xM10
VTX1 M 1080	1080	411	16,2	195	7,7	438	17,2																			60,1	132,5	0,11	5xM10
VTX1 M 1130	1130	411	16,2	195	7,7	498	19,6																			65,9	145,3	0,10	6xM10
VTX1 M 1180	1180	411	16,2	195	7,7	473	18,6																			65,2	143,7	0,10	6xM10
VTX1 M 1230	1230	411	16,2	195	7,7	492	19,4																			67,6	149,0	0,09	6xM10
VTX1 M 1250	1250	411	16,2	195	7,7	498	19,6																			68,7	151,5	0,09	6xM10
VTX1 M 1280	1280	411	16,2	195	7,7	511	20,1																			70,5	155,4	0,09	6xM10
VTX1 M 1330	1330	411	16,2	195	7,7	523	20,6																			72,0	158,7	0,09	6xM10



The block length and weight are determined by the number of cells in the block. All tabulated dimensions are maximum values.

A responsible corporate citizen

Alcad is committed to protecting and preserving the environment. We are engaged in a sustained effort to use resources responsibly and to act in a way that clearly demonstrates our great respect for the planet.

Alcad LTD has set up a network of Bring Back Points (BBPS) which receive end-of-life nickel based batteries from end users free of charge. These batteries are then shipped by these BBPs to our recycling facility in Sweden or to fully permitted recycling companies, in compliance with the laws governing trans-boundary waste shipments.

The recycling efficiency of these recyclers exceeds 75% of the nickel based battery weight (a level which exceeds the mandated recycling efficiency of 65% applicable to lead-acid batteries), and recycled materials are reused as secondary raw material for industry.

This network of Bring Back Points comprises over 30 entities, and provides services in all of our major markets in Europe, North America, Asia and Africa. The list of BBPs and their contact details are available on the Alcad website.

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Reliability inside

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