

Vision Group Company Profile

June.2024

VRLA & SODIUM

Stock code 002733



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Sodium Products





The world's leading provider of smart energy solutions



Mission



corporate vision



Stock Code

Green Our Earth
Power Your Vision

To be a global leader in smart energy solution

002733

Part 01 About us • Globalization of Vision Group





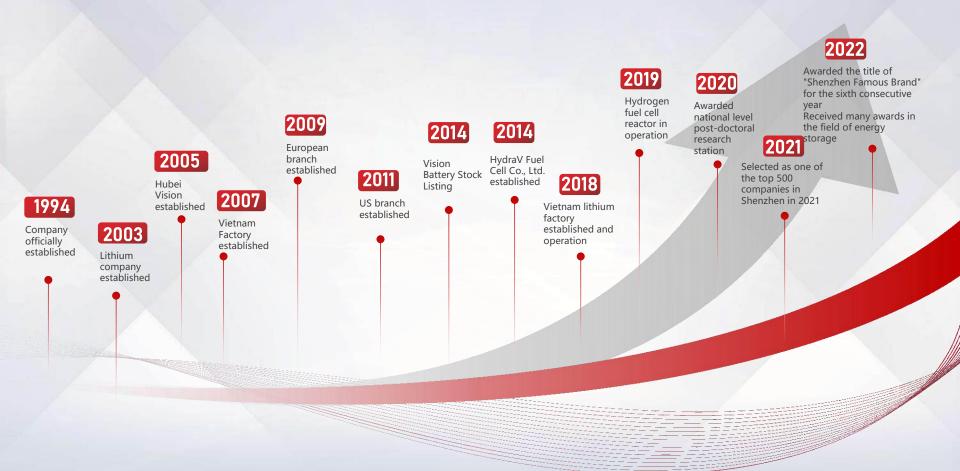






Our service network covers more than 100+ countries and regions worldwide. Dedicated to providing solutions for valve-regulated lead-acid batteries, lithium-ion batteries, fuel cells and other products







Annual sales

Unit: 100 million dollar



Product Sales Trend

Unit:100million dollars





ISO26000 ISO14001 ISO45001





System Certifications

Domestic certifications, Thiel Certification, Golden Sun Certification,
Telecom Equipment Seismic Performance Test Certificate,
China Electric Power Research Institute Certification, etc.; US UL Certification,
EU CE Certification, Germany VDS Certification, India BIS Certification,
Korea KC Certification, Saudi SASO Certification, EU/US Battery Directive,
International CB Certification, IEC Test Certificate, UN38.3 Certification,
EU RoHS certification, and other international certifications



15

Product certifications



Patents for inventions Utility models Design Patents



408

Company Patents

National Postdoctoral Research Station National Enterprise Technology Centre
National Specialized and New "Small Giant" Enterprise 2021 Global Top 500 New
Energy Enterprises List 2021 Shenzhen Top 500 Enterprises 2020 Reputable
Export Enterprise 2020 Top 100 Enterprises in China's Light Industry 2019 China
Top 100 Lithium-ion Battery Export Enterprises Top 10 Enterprises in China's
Light Industry Lead Storage Battery Industry Guangdong Famous Trademark
Shenzhen Famous Brand Shenzhen Private Leading Backbone Enterprise



119

Honors



ecovadis

SHENZHEN CENTER POWER TECH CO LTD (GROUP)

has been awarded a

Silver medal

as a recognition of their EcoVadis Rating

- MARCH 2023-





Ecovadis Assessment



Vision Group has accumulated rich industry battery technical experience in the past 30 years, successfully launched 3 generations of products in the market with core technologies and well recognized by global customers.



1994

Lead- acid batteries



2003

Lithium batteries



2014

HydrogenFuel Cell

Energy storage

UPS

SOLUTION

Motive Power

Telecom



PRODUCTION MANUFACTURING

With 6 production bases located in

Shenzhen, Jingshan, Wuhan, Datong and in China, and Ho Chi Minh in Vietnam, Annual

lead-acid battery capacity 5GWh,

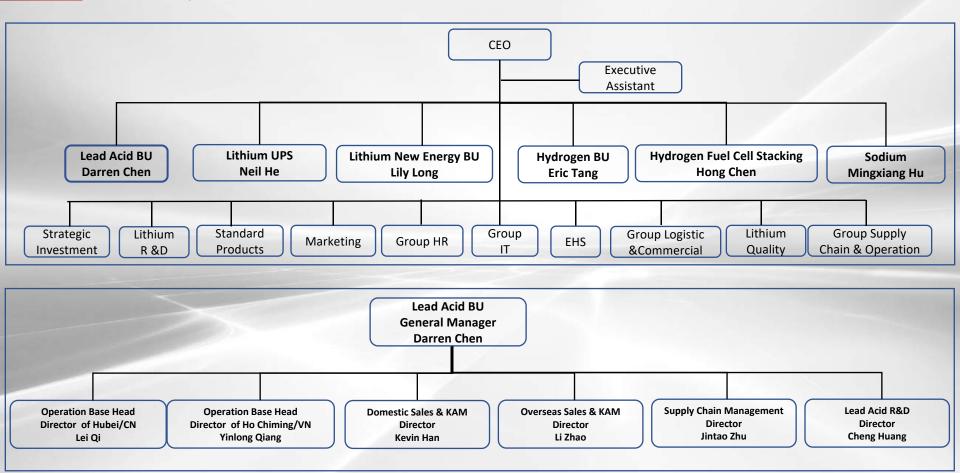
Annual lithium battery capacity 5GWh,

Annual Hydrogen fuel cell stacks 28,000

sets

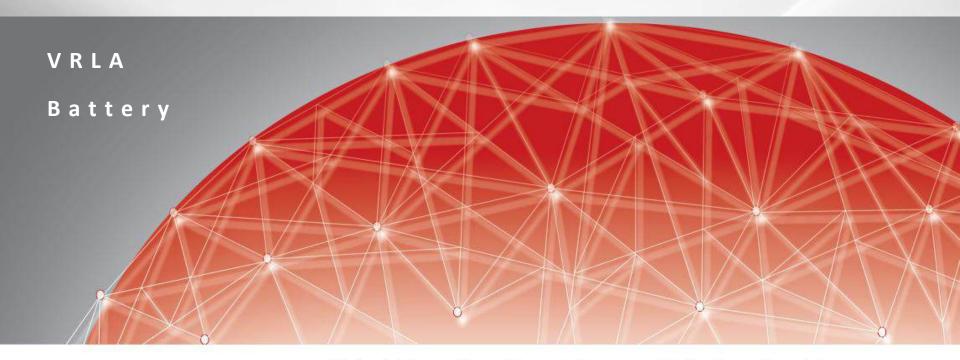








Product Introduction



World-Leading Smart Energy Solution Provider



Vision Lead Acid Product



- AGM CP Series
- AGM FM Series
- AGM UPS Series
- AGM CT&CTA Series

- CG Series
- EV Series
- CL Series
- Deep Cycle Series

AGM CP Series

BATTERY	NOMINAL	Nominal Capacity	LEN	GTH	WIE	TH	HEI	GHT	TOTAL	HEIGHT	TERMINA	WEIGHT	(APPROX)
TYPE	VOLTAGE(V)	(20hr/Ah)	mm	in	mm		mm	in	mm		TERMINAL	Kg	Ibs
CP1208	12	0.8	96	3.78	25	0.98	62	2,44	62	2,44	T9/T13/T14 T15/T47	0.34	0.75
CP1212	12	1.2	97	3.82	43	1.69	52	2.05	58	2.28	F1	0.53	1.17
CP1223	12	2.3	178	7.01	35	1.38	61	2.4	67	2.64	F1	0.99	2.18
CP1223C	12	1.8	182	7.17	24	0.94	61	2.4	61	2.4	T10	0.65	1.43
CP1229	12	2.9	79	3,11	55.5	2.19	98.5	3.88	104	4.09	F1	1.05	2,31
CP1245E	12	4.5	90	3.54	70	2.76	101	3.98	107	4.21	F1/F2	1.55	3.41
CP1250HR	12	5	90	3.54	70	2.76	101	3.98	107	4.21	F1/F2	1.72	3.79
CP1260	12	6	151	5.94	52	2.05	94	3.7	99	3.9	F1/F2/+F2-F1	2.18	4.8
CP1265Y	12	6.5	151	5.94	65	2.56	94	3.7	100	3.94	F1/F2	1.9	4.19
CP1270	12	7	151	5.94	65	2.56	93.5	3.68	100	3.94	F1/F2/+F2-F1	2.32	5.12
CP1270Y	12	7	151	5.94	65	2.56	94	3.7	100	3.94	F1/F2	2	4.84
CP1275	12	7.5	151	5.94	65	2.56	94	3.7	100	3.94	F1/F2	2.3	5.07
CP1290	12	9	151	5.94	65	2.56	94	3.7	100	3.94	F1/F2	2.8	6.17
CP6120	6	12	151	5.94	50	1.97	94	3.7	100	3.94	F1/F2	1.85	4.08
CP12120	12	12	151	5.94	98	3.86	95	3.74	101	3.98	F1/F2	3.67	8.01
CP12120D	12	12	151	5.94	98	3.86	95	3.74	101	3.98	F1/F2/+T28-F2	4.4	9.7
CP12140T	12	14	216	8.5	71	2.8	140	5.51	140	5.51	+F2-F1	4.74	10.45
CP12170	12	17	181	7.13	77	3.03	167	6.57	167	6.57	F2/F3	5.5	12.1
CP12170E	12	17	181	7.13	77	3,03	167	6.57	167	6.57	F3	5.3	11.7
CP12170E-X	12	17	181	7.13	77	3.03	167	6.57	167	6.57	F13	5.3	11.7
CP12240	12	24	166	6.54	175	6.89	125	4.92	125	4.92	F2/F3	8.1	17.8
CP12240E	12	24	166	6.54	175	6.89	125	4.92	125	4.92	F3/F4	7.6	16.8
CP12240E-X	12	24	166	6.54	175	6.89	125	4.92	125	4.92	F13	7.6	16.8
CP12280S-X	12	28	165	6.5	125	4.92	175	6.89	182	7.17	F13	9.3	20.5
CP12400F-X	12	40	197.5	7.77	165.5	6.52	170	6.69	170	6.69	F11	12.8	28.2
CP12650F-X	12	65	350	13.8	167	6.57	179	7.05	179	7.05	F11	20.4	45

General Features

- Adequate capacity & Sealed Construction
- Long Services Life & Maintenance-Free Operation
- Heavy Duty Grid
- Low Self Discharge





Applications

- Alarm Systems
- Communications Equipment
- Toys
- Electronic Cash Registers
- Emergency lighting Systems
- Fire & Security System
- Geophysical Equipment
- Marine Equipment
- Medical Equipment
- Solar Powered System
- Telecommunications System
- Television & Video Recorder
- Uninterruptible Power Supplies
- Electrical System
- Vending Machines

AGM FM Series



General Features

- High Reliability and Good Quality.
- Deep Discharge Recovery .
- High Power Density .
- Long Service Life.





Applications

- UPS
- Telecom Systems
- Solar Systems
- Cable TV
- Electric Wheelchair
- Power Station
- Marine Equipment
- Military Equipment
- Golf Car
- Electric Fork
- Electrical System
- Railway System

AGM CT&CTA Series

Applications

- Communication equipment
- Uninterruptible power supplies
- Telecommunication systems
- Electronic cash registers
- Microprocessor based office machines
- Other standby power supplies

General Features

- Maintenance-Free Operation
- Low Self-discharge
- Front access terminals for easy and quick connection
- Low internal resistance
- Lower self discharge
- Design life 12+ years





BATTERY	NOMINAL	Nominal	LEN	IGTH	WIE	OTH	HEI	GHT	TOTAL	HEIGHT		WEIGHT	(APPROX
TYPE	VOLTAGE(V)	Capacity (10hr/Ah)	mm	in	mm	in	mm	in	mm		TERMINAL	Kg	lbs
CT12-50EX	12	50	277	10.9	106	4.17	229	9.02	243	9.57	F11	16,3	35.9
CT12-50X	12	50	277	10.9	106	4.17	229	9.02	243	9.57	F11	17.3	38.1
CT12-80X	12	80	564	22.2	115	4.53	189	7.44	189	7.44	F11/F19	28.2	62.2
CT12-100EX	12	100	508	20	110	4.33	223	8.78	238	9.37	F18	28.5	62.8
CT12-100X	12	100	508	20	110	4.33	223	8.78	238	9.37	F18	32.5	71.6
CT12-100X-HTB	12	100	508	20	110	4.33	223	8.94	227	8.94	F18	32.5	71.6
CT12-100YEX	12	100	508	20	110	4.33	231	9.09	231	9.09	F12	29.4	64.8
CT12-100YX-HTB	12	100	395	15.6	110	4.33	286	11.3	293	11.5	F12	31	68.3
CT12-105EX	12	105	395	15.6	110	4.33	286	11.3	293	11.5	F12	31.5	69.4
CT12-105X	12	105	395	15.6	110	4.33	286	11.3	293	11.5	F12	35	77.2
CT12-105X-TB	12	105	395	15.6	110	4.33	286	11.3	293	11.5	F12	35	77.2
CT12-125EX	12	125	436	17.2	108	4.25	317	12.5	317	12.5	F15	36	79.4
CT12-125X	12	125	436	17.2	108	4.25	317	12.5	317	12.5	F15	40	88.2
CT12-150EX	12	150	548	21.6	105	4.13	316	12.4	316	12.4	F15	45.5	100
CT12-150X	12	150	548	21.6	105	4.13	316	12.4	316	12.4	F15	48.8	107.7
CT12-150X-HTB	12	150	552	21.7	110	4.33	288	11.3	295	11.6	F12	48.8	107.7
CT12-150YX	12	150	548	21.6	105	4.13	316	12.4	316	12.4	F15	41	88
CT12-150ZEX	12	150	552	21.7	110	4.33	288	11.3	295	11.6	F12	42.5	93.7
CT12-150ZX	12	150	552	21.7	110	4.33	288	11.3	295	11.6	F12	48.2	105.3
CT12-155X	12	155	551	21.7	110	4.33	316	12.4	316	12.4	F15	52	113.6
CT12-180X	12	180	546	21.5	125	4.92	317	12.5	317	12.5	F15	58.5	129.1
CT12-180X-HTB	12	180	558	22	125	4.92	317	12.5	317	12.5	F15	58.5	129.1
CT12-180YX	12	50	546	21.5	125	4.92	317	12.5	323	12.7	F15	49.5	109.2
CTA12-50X	12	50	279	11	105	4.13	280	11	280	11	F15	20	44.1
CTA12-75X	12	75	563	22.2	115	4.53	188	7.4	188	7.4	F15	28.5	62.8
CTA12-85X	12	85	393	15.5	125	4.92	256	10.1	256	10.1	F15	33	72.8
CTA12-100X	12	100	558	22	125	4.92	228	8.98	228	8.98	F12	42	92.65
CTA12-155X	12	155	546	21.5	125	4.92	315	12.4	315	12.4	F15	61.6	135.8

AGM HFS Series





BATTERY	NOMINAL	Nominal	LEN	GTH	WIE	OTH	HEI	GHT	TOTAL	HEIGHT		WEIGHT	(APPROX)
TYPE	VOLTAGE(V)	Capacity (10hr/Ah)	mm	in	mm	in	mm		mm	in	TERMINAL	Kg	lbs
HFS12-115W-X	12	26	165	6.5	125	4.92	175	6.89	175	6.89	F13	9.6	21.2
HFS12-150W-X	12	33	195	7.68	130	5.12	155	6.1	168	6.61	F11	11.5	25.4
HFS12-200W-X	12	55	229	9.02	138	5.43	208	8.19	213	8.39	F11	17	37.5
HFS12-320W-X	12	75	258	10.2	166	6.54	210	8.27	215	8.46	F11	24.5	54
HFS12-360W-X	12	85	306	12	170	6.69	220	8.66	225	8.86	F12	28.1	61.9
HFS12-400W-X	12	90	306	12.06	168	6.62	210	8.27	215	8.47	F12/F45	29.2	64.4
HFS12-420W-X	12	100	328.5	12,94	172	6.78	212.5	8.37	220	8.67	F12/F45	32.3	71.2
HFS12-450W-X	12	120	410	16.14	176	6.93	224	8.82	224	8.82	F12	36.5	80.5
HFS12-500W-X	12	134	340	13.4	172	6.78	279	11	286.5	11.3	F48/F15	40	88.2
HFS12-540W-X	12	140	340	13.4	172	6.78	279	11	286.5	11.3	F48/F15	41.5	91.5
HFS12-560W-X	12	150	482	18.9	170	6,69	240	9.4	240	9.4	F10	45	99,2
HFS12-710W-X	12	192	530	20.8	209	8.2	215	8.5	220	8.7	F10	57	126
HFS12-820W-X	12	220	522	20.5	238	9.37	218	8.6	223	8.8	F38	67.5	148.9
HFS12-400W-X	12	90	306	12	170	6.69	220	8.66	225	8.86	F12/F45	29.2	64.4
HFS12-420W-X	12	100	339	13,3	173	6.81	215	8.46	220	8.66	F12/F45	31.5	69.4
HFS12-500W-X	12	134	341	13.4	173	6.81	279	11	283	11.1	F48/F15	39.5	87.1
HFS12-540W-X	12	140	341	13.4	173	6.81	279	11	283	11.2	F48/F15	41	90.4
HFS12-850W-X	12	220	526	20.7	238	9,37	246	9.7	246	9.7	F38	69	152.2

General Features

- Maintenance-Free Operation
- Lower internal Resistance.
- Superior energy density and very high power output.
- Operates at a low internal pressure.
- Power range from 90W to 850W per cell for 15' @ 1.67Vpc
- Design life :12years at 20 °C

Applications

- Office machines and Computers
- Telecommunications
- UPS Equipment
- Electrical System
- Vending machine

Deep Cycle Series

Applications

- Solar Systems
- Wheelchair
- Golf Cart
- Marine Equipment
- Power Station
- Railway Systems
- Telecom Systems
- Cable TV Systems
- Emergency Power System

General Features

- Maintenance-Free Operation
- Environmentally friendly
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic
- International Standard, JIS and DIN





BATTERY	NOMINAL	Nominal	LEN	GTH	WIE	TH	HEI	GHT	TOTAL	HEIGHT	TECHNIA.	WEIGHT((APPROX)
TYPE	VOLTAGE(V)	Capacity (10hr/Ah)	mm	in	mm	in	mm	in	mm	in	TERMINAL	Kg	Ibs
3FM180D-X	6	180	306	12	164	6.46	220	8.66	225	8.86	F12	28.6	63.1
3FM200D-X	6	200	240	9.45	185	7.28	275	10.83	275	10.83	F12	32.5	71.69
3FM225D-X	6	225	320	12.6	176	6.89	225	8.86	230	9.06	F12	30.5	67.3
6FM33D	12	33	195	7.68	130	5.12	155	6.1	180	7.09	F7	11	24.3
6FM33D-X	12	33(20hr)	195	7.68	130	5.12	155	6.1	168	6.61	F11	11	24.3
6FM33HD-X	12	33	195	7.68	130	5.12	155	6.1	168	6.61	F11	10.4	22.9
6FM40D-X	12	40(20hr)	197.5	7.78	165.5	6.52	170	6.69	170	6.69	F11	14.7	21.4
6FM45D-X	12	45Ah(20hr)	197.5	7.78	165,5	6,52	170	6,69	170	6,69	F11	14.6	32,2
6FM55D-X	12	51.7	239	9.41	132	5.2	205	8.07	210	8.27	F11	16.7	36.8
6FM55TD-X	12	51.7	229	9.01	138	5.43	208	8.18	213	8.38	F11/F12	18.5	40.8
6FM65D-X	12	65(20hr)	350	13.78	167	6.75	179	7.05	179	7.05	F11	23.4	51.5
6FM75D-X	12	75(20hr)	258	10.16	166	6.54	206	8.11	215	8.46	F11/F12	23.5	51.8
6FM75TD-X	12	75(20hr)	258	10.16	166	6.54	210	8.27	215	8.46	F21	24	52.9
6FM80D-X	12	75.6(20hr)	350	13.78	167	6.57	179	7.05	179	7.05	F11	22.5	49.6
6FM90TD	12	88.6	306	12.05	169	6.65	210	8.27	234	9.21	F17	30	66.1
6FM100D	12	100(20hr)	330	12.99	171	6.73	214	8.43	220	8,66	F5	32	70.5
6FM100D-X	12	100(20hr)	330	12.99	171	6.73	215	8.46	220	8.66	F11/F12	32	70.5
6FM100Z-X	12	100	330	13	171	6.73	215	8.46	220	8.66	F11/F12	30	66.1
6FM120D	12	120(20hr)	410	16.14	176	6.93	224	8.82	224	8.82	F5	36.5	80.5
6FM120D-X	12	120(20hr)	410	16.14	176	6.93	224	8.82	224	8.82	F12	36.5	80.5
6FM120SD-X	12	120(20hr)	330	12.99	171	6.73	215	8.46	222	8.74	F11/F12	32.5	71.6
6FM134D-X	12	134(20hr)	341	13.4	173	6.73	283	11.1	287	11.3	F15	42.5	93.7
6FM150D	12	150(20hr)	482	19	170	6.69	240	9.45	240	9.45	F5	47	103,6
6FM150D-X	12	150(20hr)	482	19	170	6.69	240	9.45	240	9.45	F12	47	103.6
6FM150Z-X	12	150	482	19	170	6.69	240	9.45	240	9.45	F12	44.5	98.1
6FM200D-X	12	200(20hr)	522	20.55	238	9.37	218	8.58	223	8.78	F12	65	143.3
6FM200Z-X	12	200	522	20.55	238	9.37	218	8.58	223	8.78	F12	62.5	137.8
6FM250Z-X	12	250	520	20,5	269	10.6	221	8.7	227	8.9	F12	74	163.1

CG Series





BATTERY	NOMINAL	Nominal	LEN	IGTH	WII	OTH	HEI	GHT	TOTAL	HEIGHT	7000000	WEIGHT	(APPROX
TYPE	VOLTAGE(V)	(10hr/Ah)	mm	in	mm	in	mm	in	mm		TERMINAL	Kg	lbs
CG2-200PE	2	200	173	6.81	111	4.37	330	13	364	14.3	F10	15.2	33.5
CG2-300PE	2	300	171	6.73	151	5.94	330	13	364	14.3	F10	20	44.1
CG2-400PE	2	400	210	8.27	176	6.93	330	13	367	14.5	F10	27	59.5
CG2-500PE	2	500	242	9.53	173	6.81	330	13	365	14.4	F10	31	68.4
CG2-600PE	2	600	302	11.9	175	6.89	330	13	367	14.5	F10	40	88.2
CG2-800PE	2	800	410	16.1	175	6.89	330	13	367	14.5	F10	53.5	118
CG2-1000PE	2	1000	475	18.7	175	6.89	330	13	367	14.5	F10	63.5	140
CG2-1500PE	2	1500	400	15.75	350	13.78	345	13.58	382	15.04	F10	105	231.6
CG2-2000PE	2	2000	490	19.29	350	13.78	345	13.58	382	15.04	F10	120	264.7
CG12-55PEX	2	55	350	13.78	167	6.57	179	7.05	179	7.05	F11	18.5	40.8
CG12-90PEX	12	90	330	13.0	171	6.73	215	8.46	220	8.66	F11	29.5	65
CG12-105PEX	12	105	410	16.14	176	6.93	224	8.82	224	8.82	F12	35.5	78.3
CG12-120PEX	12	120	482	19	170	6.69	240	9.45	240	9.45	F12	44.5	98.2
CG12-135PEX	12	135	482	19	170	6.69	240	9.45	240	9.45	F12	46	101.4
CG12-160PEX	12	160	530	20.87	209	8.23	215	8.46	220	8.66	F12	56.5	124.6
CG12-180PEX	12	180	522	20.55	238	9,37	218	8.58	223	8.78	F12	63	138.9
CG12-200PEX	12	200	520	20.47	269	10.59	203	7.99	208	8.19	F12	70	154.4
CG12-220PEX	12	220	521	20.5	269	10.59	220	8.66	227	8.94	F12	75.5	166.4
CGT12-100PEX	12	100	436	17.2	108	4.25	317	12.5	317	12.5	F15	39.4	86.9
CGT12-120PEX	12	120	552	21.7	110	4,33	288	11.3	295	11.6	F12	44.5	98.2
CGT12-160PEX	12	160	546	21.5	125	4.92	317	12.5	323	12.7	F15	53.5	118

Introduction

Our company is the first one to develop real power gel battery in strict accordance with international standards in china.

General Features

■ With the Sonnenschein gel technologies and standards, use the Germany most advanced high porosity PVC-SiO2 separator, and the silica gel fixed electrolyte.



High power HFS Series with Front Terminal

Constant Power Discharge Date (Watts per cell at 1.75 V 25 °C)

	5min	10min	15min	20min	25min	30min	60min	C10
HFS12-370WF-X	597	442	370	294	258	221	124	19.8
HFS12-430WF-X	615	490	430	326	269	235	132	22
HFS12-500WF-X	694	581	500	379	312	273	258	28.1
HFS12-600WF-X	780	656	600	465	423	343	188	30.4
HFS12-630WF-X	874	732	630	436	375	328	190	32
HFS12-700WF-X	972	789	700	509	437	383	222	38.9



New feature

- 12 years design life
- 2-3 years warranty

Application

- IDC data center
- High power UPS
- Telecom



New Process: Stamping grid plate technology

Stamping Grid Plate Technology Description

Stamping Grid plate, also called pure lead grid are manufactured using high-purity original ecological lead through purification and stamping to form positive and negative grid lead strips. Unlike traditional gravity cast lead calcium tin alloy grids, pure lead grids are denser and more corrosion-resistant in high temperature environment!

Advantage

- √ Long service life;
- ✓ Sufficient capacity and good consistency;
- ✓ Fast charge performance;
- ✓ Wide working temperature range (-40 \sim +60 $^{\circ}$ C);
- ✓ Good sealing performance, safe and reliable;
- ✓ Thin plate pure lead technology, high energy density.

ISION

New Process: Stamping grid plate technology





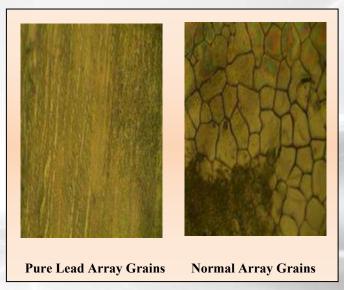


Small blocks: 7Ah/9Ah --- CP1290P/CP1270P

Big blocks:

100Ah/120Ah/150Ah at some series products

6FM100P-X/6FM120P-X/6FM150P-X

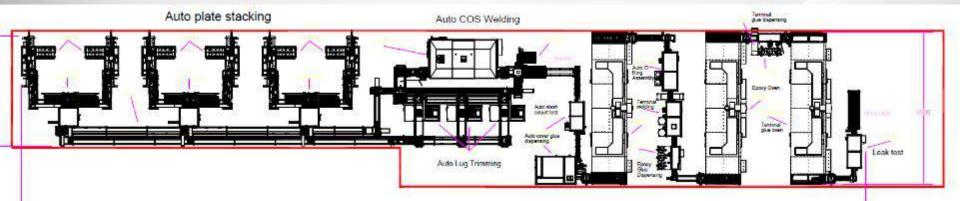


The alloys grains arrays of pure lead grid is more dense and uniform

Higher alloy corrosion resistance improves overall active material utilization. It reduces battery internal impedance and concentration polarization, increases battery conversion efficiency, and shortens battery charging time.



New Process: Small blocks automated assembly line



Auto assembly line for 12V 7Ah and 9Ah in mass production since May of 2023.







PARAGONAGE BY VISION

2024-04



A GREENER WORLD WITH SODIUM

SHENZHEN CENTER POWER TECH.CO.,LTD.

Stock code 002733

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- Vision Sodium
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- Application
- Vision Sodium Products
- Application Cases





Vision Sodium





R&D Shenzhen, China R&D Facility

4,000 Sqrms

Electrolyte Lab Cell Test Lab Pack Test Lab Cell NPI Line

Well established battery cell and pack development capability









Test

Manufacturing

Verification

Solution





Manufacturing Wuxi, China

Manufacturing Facility

Cylindric Cell Manufacturing Capacity Soft Shell Battery Cell Manufacturing Capacity

1,2000 squrs

500 MW / Year

900,000 pcs/Year



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Why Sodium





Product Advantage- 1

Extreme Performance in Low Temperature

-20°C 90%
Ambient Temperature Capacity

Battery -20 ℃ Discharge Feather

LFP 50% NCM 60% VRLA 60%



Why Sodium





Product Advantage- 2

Extreme Performance in Application Safety





Why Sodium





Product Advantage-3

More Friendly to Environment

Sodium is more abundant and widely distributed in the Earth's crust compared to lithium. Therefore, from a resource availability perspective, sodiumbased batteries has an advantage as they rely on a more plentiful element, which will also result in a stable and cheaper cost



Sodium batteries typically use water-based electrolytes, which will be less harmful to the environment compared to the organic solvents used in lithium batteries.

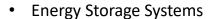


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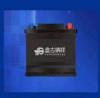
Vision Sodium Applications







- Telecom
- Mid-Low Speed EV / Bicycles
- **Starter Battery**







Start-stop battery

UPS

Construction machinery



Electric two-wheeler





Electric tricycle

Telecom stations power







Portable energy storage Household energy storage

Industrial and commercial energy storage



Vision Sodium Products-Cells











71174207-230AH

ltem	Conventiona	l parameter	Remark
Standard charge	Continuous current 0.2 cut-off cu	C, cut-off voltage 4.0V, rrent 0.05C	46A
Standard discharge	0.2c constant di	scharge to 1.5V	46A
Internal resistance	≤3.0	DmΩ	1
Discharging current	Maximum continu cut-off vo		115A
	Maximum continu cut-off voltage 4.0V,		46A
Charge current	Maximum continu cut-off voltage 4.0V,		115A
	Maximum continu cut-off voltage 4.0V,	ous current 0.2C, cut-off current 0.05C	115A
Discharge operating temperature	-40~	60°C	1
Charge operating temperature	0~4	5°C	1
Managara Ma	L	w	н
Battery size	174 0+0 5MM	71.0±0.5MM	207 0+0 5MM

Soft pack battery

Item	Conventiona	l parameter	Remark
Standard charge	Continuous current 0.5 cut-off cur		4A
Standard discharge	Continuous current 0.5	C, cut-off voltage 1.5V	4A
Internal resistance	≤2r	mΩ	1
	Maximum continuou voltage 4.0V, cut-off c		8A
Charging current	Maximum continuou voltage 4.0V, cut-off co		24A
	Maximum continuou voltage 4.0V, cut-off c		16A
Discharge current	Maximum continuous voltag		240A
Discharge operating temperature	-40-(50°C	1
Charge operating temperature	0-4	5°C	1
	ι	w	н
Battery size	160±0.5MM	7±0.5MM	116±0.5MM

32140-10AH

Item	Conventions	al parameter	Remark
Standard charge		onstant voltage charge f current 0.05C	20A
Standard discharge	0.2C constant d	ischarge to 1.5V	20A
Internal resistance	≤3.0	lmΩ	/
Albania de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania de la compania del compania del compania del compania del compania del la compania del		s current 1.0C, cut-off off current 0.05C	15-45°C@10.0A
Charging current		off current 0.2C, cut-off	0-15°C@2.0A
		off current 0.5C, cut-off	-40-15°C@5.0A
Discharge current		off current 0.05C	15-45°C@50.0A
		s current 1.0C, cut-off off current 0.05C	45-60°C10.0A
Discharge operating temperature	-40~	60°C	/
Charge operating temperature	0~4	5°C	1
Barrier State 1	D	н	7
Battery size	47.0±0.5MM	150.0±0.5MM	,

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Vision Sodium Products-Packs







TELECOM base station battery

Item	Co	inventional paramete	Г					
Nominal voltage		48V						
Nominal energy (25°C, 0.5C)		80AH						
Nominal energy (25°C, 0.5C)		3840Wh						
Weight	42.3Kg							
Combination mode		16S4P						
Cycle life (25°C, 0.5C)	≥1500							
Operating voltage	24-64V							
Charging temperature	0-45°C							
Discharging temperature	-20°C-60°C							
Charging current		ge Maximum chargin ard charging current						
Discharge current		e Maximum dischargi rd discharging curren						
Protection function	protection over ter	tion over current prot mperature protection se protection short cir	low temperature					
Dimension(L*W*H)	L	w	н					
Difficultion(C W Fi)	442.0±0.5MM	480.0±0.5MM	140.0±0.5MM					



Two-wheeler battery pack

Item	Co	onventional parame	ter					
Battery model		32140						
Nominal voltage	48V (16S)							
Nominal capacity (25°C, 0.5C)		20AH (2P)						
Nominal energy (25°C, 0.5C)		960Wh						
Weight	10kg							
Applicable motor power	≤400W							
Range	70-100km							
Discharge temperature	-40°C	-20°C	25°C					
Discharge capacity	70%	85%	100%					
Charging current (25°C)		ous current 1.0C, co						
Discharge current	Maximum continuous current 5.0c, cut-off voltage cut-off current 0.05c							
Dimension	L	W	н					
Dimension	165MM	160MM	320MM					

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Vision Sodium Products-











Sodium battery for small UPS SIB12-165W

Item		Conventiona	l parameter		
Battery model		186	50		
Nominal voltage		12V (4S)		
Nominal capacity (25°C, 0.5C)		3.9AH	(3P)		
Nominal energy (25°C, 0.5C)		46.8	Wh		
Weight		0.6	kg		
Constant power	425W	250W	165W	85W	
Backup time	5min	10min	15min	30min	
Discharge temperature		25	°C		
Discharge capacity		1C 3.9AF	4 (3P)		
Charging current (25°C)	Maximum co	ntinuous currer cut-off cur		voltage 3.9V,	
Discharge current	Ma	ximum continu cut-off volta		0с,	
Dimension	L	W	1	н	
Difficultion	151.0MM		MM	101.0MM	

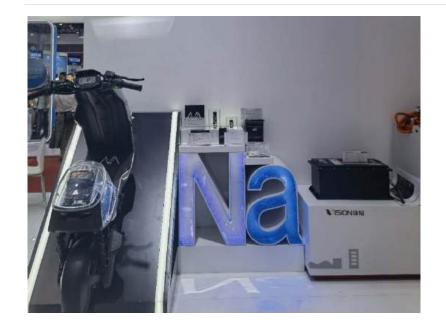
Starting power supply 1270

Item	Conventional parameter		
Nominal voltage	12V		
Nominal energy (25°C, 0.5C)	70AH		
Nominal energy (25°C, 0.5C)	840WH		
Weight	10kg		
Combination mode	4S7P		
Cycle life (25°C, 0.5C)	>1000次		
Internal resistance	<50mΩ		
Operating voltage	7.2V-16.0V		
Charging temperature	0°C-45°C		
Discharging temperature	-20°C-60°C		
Charging current	Maximum continuous current 70A, cut-off voltage 4.0V, cut-off current 0.05C; (20-25°C)		
Discharge current	Maximum instantaneous current 720A, cut-off current 0.05C (20-25°C)		
Protection function	Over voltage protection over current protection low voltage protection over temperature protection low temperature protection reverse protection short circuit protection		
Dimension	L	w	н
	306.0MM	174.0MM	200.0MM

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Vision Sodium Application Cases







Two/Three wheels electrical bikes- China



Vision Sodium Application Cases





Telecom Project in Nordic Countries

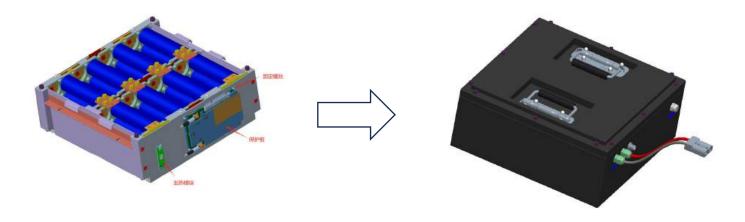


Starter Battery for an international Car manufacturer-China



Vision Sodium Application Cases





An AGV Power Solution in Europe Nordic country





Stock code 002733

THANK YOU

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