智光电气
Zhiguang Electric



光电气技术有限公司
Guangzhou Zhiguang Electric Technology Co., Lt

“ ”

2002

Establishment Time: 2002

Registered Capital: 200 million yuan

Wholly-owned subsidiary of Zhiguang Electric Co., Ltd.

More than 300 patents and honorary qualifications



2006

2007

7MVA/10MVA

2008

10MVA

2009

1000MW

2010

2011

10MVA

-

2018

3300V IGBT

2019

2020

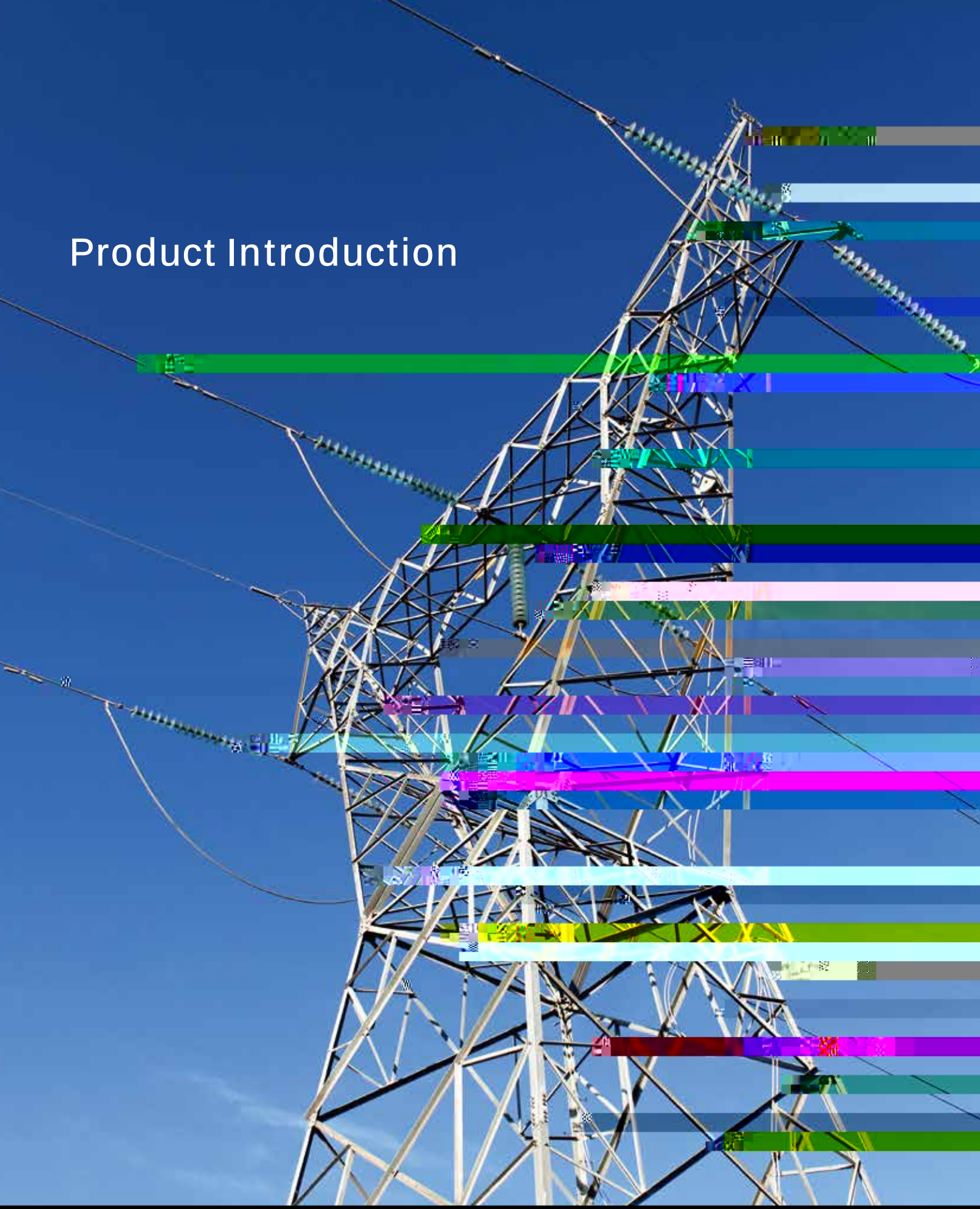
2021

2022

2023



Product Introduction



2.1 ZINVERT

ZINVERT 10kV 6kV

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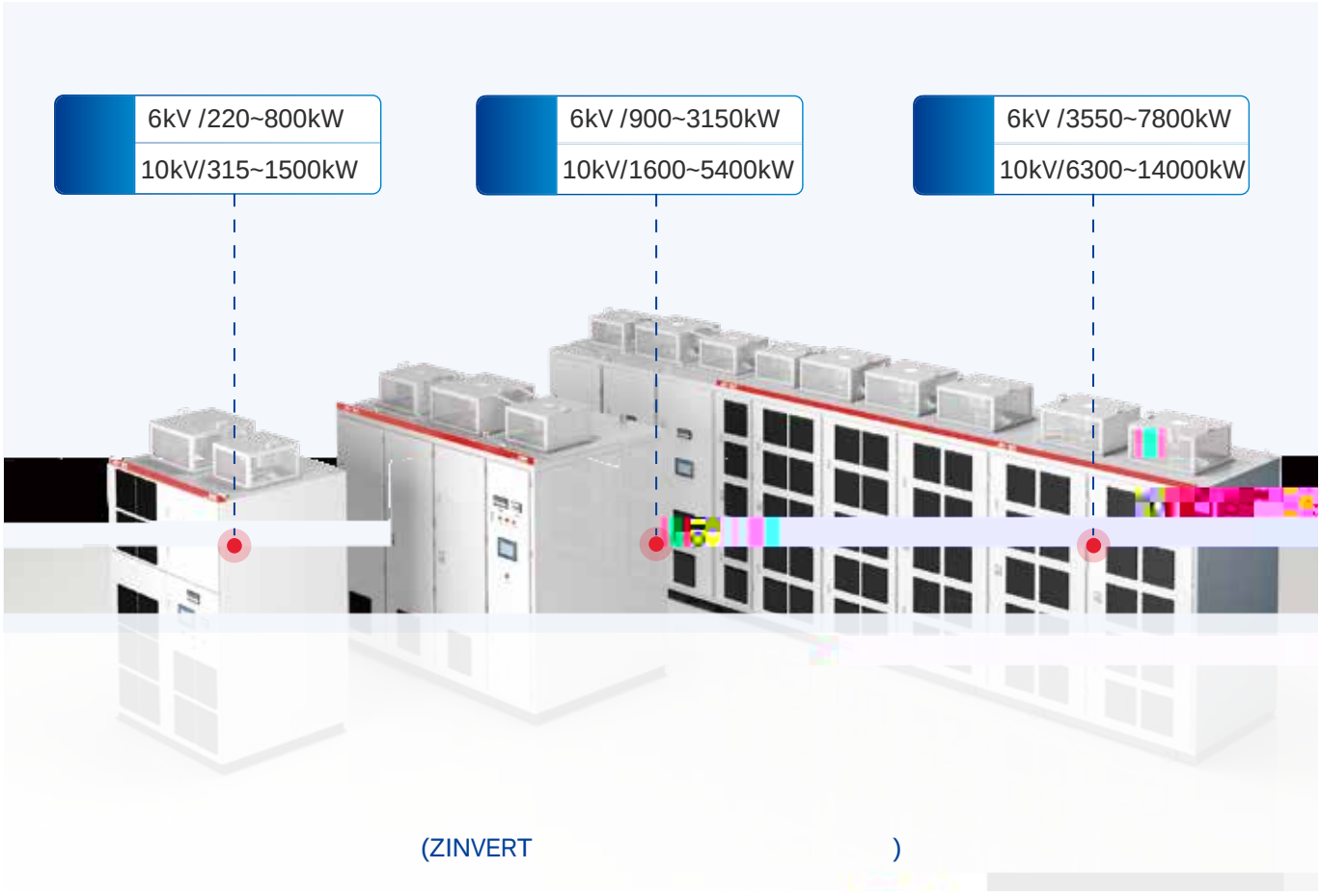

(ZINVERT)

2.2 ZINVERT

Superior high and low voltage ride-through technology

65 115 Ue 60s

“ STT ”

Direct starting of rotating loads with proprietary "STT" technology

“ STT ”

“ SCP ”

High-voltage output sudden short-circuit "SCP" protection technology

Separate power supply technology for transformers with high short-circuit insulation impedance

Adaptive acceleration and deceleration adjustment

Unique cooling structure adapts to air-cooled and water-cooled flexible design

Low power sensitivity and high operational stability

The whole machine is self-developed and produced to ensure quality and cost competitiveness.

0.1 10Hz

/ / 16 1 5

RS232 RS485 RJ45

0.1% ± 2%

>97% rated >96% 20% >20% rated

0~10%Un configurable

0 3000s configurable

0.1 30s)

PLC PID /

IGBT

<75dB all

	5000m 1200 1200-5000
/	-5~+45 20~95%
	10~150HZ 0.5g
	-20~70

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▸ 10kV

1	315	Zinvert-A8H400/10	30	2400	3000	2810	1384	2670	2970
2	355	Zinvert-A8H450/10	30	2400	3000	2810	1384	2720	3020
3	400	Zinvert-A8H500/10	30	2400	3000	2810	1384	2770	3070
4	450	Zinvert-A8H560/10	36	2400	3000	2810	1384	2867	3167
5	500	Zinvert-A8H630/10	36	2400	3000	2810	1384	2967	3267
6	560	Zinvert-A8H700/10	50	2400	3000	2810	1384	3067	3367
7	630	Zinvert-A8H800/10	50	2400	3000	2810	1384	3117	3417
8	710	Zinvert-A8H900/10	60	2400	3000	2810	1384	3284	3584
9	800	Zinvert-A8H1000/10	60	2400	3000	2810	1384	3384	3684
10	900	Zinvert-A8H1150/10	75	2400	3000	2810	1384	4098	4398
11	1000	Zinvert-A8H1250/10	75	2400	3000	2810	1384	4348	4648
12	1120	Zinvert-A8H1400/10	105	2400	3000	2810	1384	4455	4755
13	1250	Zinvert-A8H1500/10	105	2400	3000	2810	1384	4545	4845
14	1400	Zinvert-A8H1750/10	105	2400	3000	2810	1384	4745	5045
15	1500	Zinvert-A8H1800/10	105	2400	3000	2810	1384	5050	5350
16	1600	Zinvert-A8H2000/10	120	3400	4000	2675	1695	5340	5726
17	1800	Zinvert-A8H2250/10	150	3400	4000	2675	1695	5840	6226
18	2000	Zinvert-A8H2500/10	150	3400	4000	2675	1695	6206	6530
10	2250	Zinvert-A8H2800/10	180	3400	4000	2675	1695	6530	6960
6	2500	Zinvert-A8H3100/10	180	3400	4000	2675	1386	8654	8954
	2800	Zinvert-A8H3500/10	216	5700	6300	2675	1386	9428	9728
	3000	Zinvert-A8H3750/10	216	5700	6300	2675	1386	9928	10228
	3150	Zinvert-A8H4000/10	250	5700	6300	2675	1386	10144	10444
	3550	Zinvert-A8H4500/10	250	5900	6500	2675	1386	10814	11114
	4000	Zinvert-A8H5000/10	270	5900	6500	2675	1386	12158	12458
	4500	Zinvert-A8H5600/10	300	5900	6500	2710	1386	12959	13259
	5000	Zinvert-A8H6300/10	360	6100	6700	2910	1386	13358	13658
	5400	Zinvert-A8H6750/10	400	6100	6700	2910	1386	14358	14658
	6300	Zinvert-A8H7800/10	480	9680	10280	2910	1586	16027	16327
	7200	Zinvert-A8H8900/10	540	11400	13000	2910	1586	18960	20460
	8000	Zinvert-A8H10000/10	600						
	9000	Zinvert-A8H11250/10	720						
	10000	Zinvert-A8H12500/10	720						

▸ 6kV 6kV HVFD Selection Table

NO.	Motor Capacity (kW)	Inverter Model	A Rated output current	Total Length		Height	Total Depth	kg Total Weight	
				Manual	Automatic	(mm)	(mm)	Manual	Automatic
1	220	Zinvert-A6H280/06	30	2400	3000	2810	1384	2370	2670
2	250	Zinvert-A6H315/06	30	2400	3000	2810	1384	2370	2670
3	280	Zinvert-A6H350/06	35	2400	3000	2810	1384	2440	2740
4	315	Zinvert-A6H400/06	50	2400	3000	2810	1384	2524	2824
5	355	Zinvert-A6H450/06	50	2400	3000	2810	1384	2664	2964
6	400	Zinvert-A6H500/06	50	2400	3000	2810	1384	2831	3131
7	450	Zinvert-A6H560/06	60	2400	3000	2810	1384	2911	3211
8	500	Zinvert-A6H630/06	60	2400	3000	2810	1384	3281	3581
9	560	Zinvert-A6H700/06	75	2400	3000	2810	1384	3348	3648
10	630	Zinvert-A6H800/10	105	2400	3000	2810	1384	3445	3745
11	710	Zinvert-A6H900/10	105	2400	3000	2810	1384	3545	3845
12	800	Zinvert-A6H1000/10	105	2400	3000	2810	1384	3765	4065
13	900	Zinvert-A5H1150/06	120	3000	3600	2675	1695	6106	6486
14	1000	Zinvert-A5H1250/06	120	3000	3600	2675	1695	6586	6966
15	1120	Zinvert-A5H1400/06	150	3000	3600	2675	1695	6766	7146
16	1250	Zinvert-A5H1550/06	150	3000	3600	2675	1695	6766	7146
17	1400	Zinvert-A5H1800/06	180	3000	3600	2675	1695	6766	7146
18	1600	Zinvert-A5H2000/06	216.5	3800	4400	2675	1586	5930	6230
19	1800	Zinvert-A5H2250/06	216.5	3800	4400	2675	1586	6430	6730
20	2000	Zinvert-A5H2500/06	250	3800	4400	2675	1586	6684	6984
21	2250	Zinvert-A5H2800/06	270	3900	4500	2710	1600	8105	8114
22	2500	Zinvert-A5H3150/06	300	3900	4500	2710	1600	8650	8704
23	2800	Zinvert-A5H3500/06	400	3900	4500	2710	1600	9023	9323
24	3150	Zinvert-A5H4000/06	400	3900	4500	2710	1600	9660	9960
25	2250	Zinvert-A6H2800/06	270	3900	4500	2710	1600	8105	8114
26	2500	Zinvert-A6H3150/06	300	3900	4500	2710	1600	8650	8704
27	2800	Zinvert-A6H3500/06	400	3900	4500	2710	1600	9023	9323
28	3150	Zinvert-A6H4000/06	400	3900	4500	2710	1600	9660	9960
29	3550	Zinvert-A6H4500/06	480	8000	8600	2910	1586	11614	11914
30		Zinvert-A5H4500/06		8000	8600	2910	1586	11155	11455
31	4000	Zinvert-A6H5000/06	480	8000	8600	2910	1586	12114	12414
32		Zinvert-A5H5000/06		8000	8600	2910	1586	11655	11955
33	4500	Zinvert-A6H5600/06	540	9200	10800	2910	1586	13776	15276
34		Zinvert-A5H5600/06		9200	10800	2910	1586	13317	14817
35	5000	Zinvert-A6H6300/06	600	9400	10800	2910	1586	15438	16938
36		Zinvert-A5H6300/06		9400	10800	2910	1586	14979	16479
37	5600	Zinvert-A6H7000/06	720	9400	11000	2910	1586	15438	16938
38		Zinvert-A5H7000/06		9400	10800	2910	1586	14979	16479
39	6300	Zinvert-A6H8000/06	800	11000	12600	2910	1586	20850	22350
40		Zinvert-A5H8000/06		11000	12600	2910	1586	20250	21750
41	7100	Zinvert-A6H9000/06	900	11000	12600	2910	1586	21650	23150
42	7800	Zinvert-A6H10000/06	1050	13000	14600	2910	1586	23950	25450

▸ 3kV 3kV HVFD Selection Table

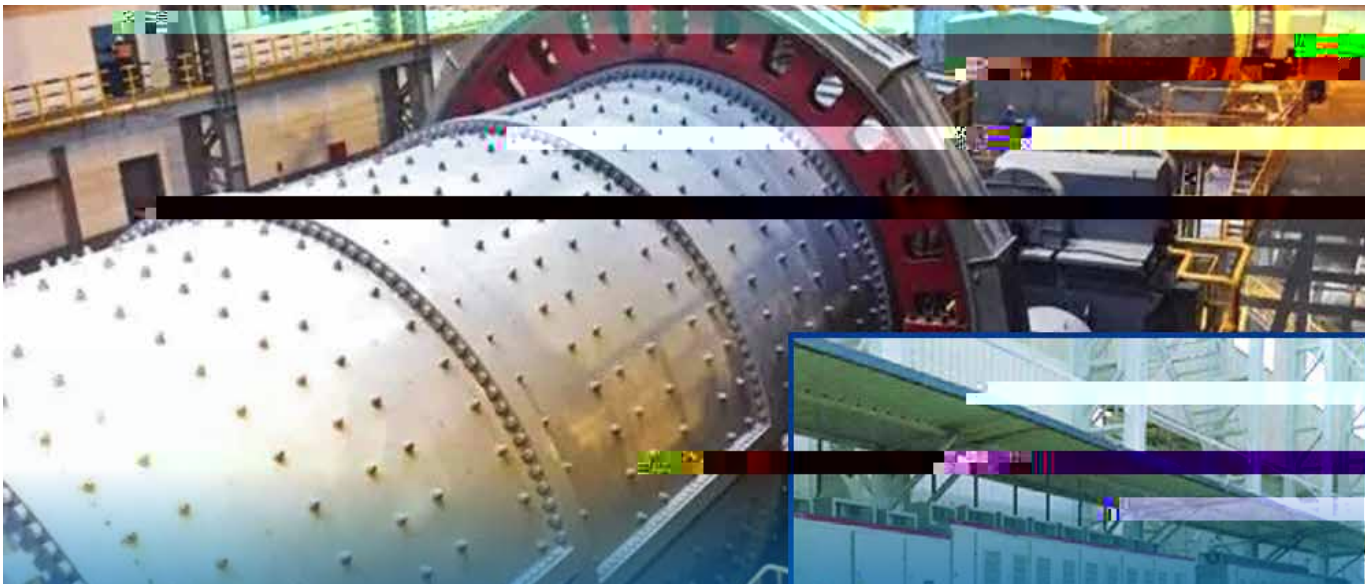
NO.	Motor Capacity (kW)	Inverter Model	A Rated output current	Total Length		Height (mm)	Total Depth (mm)	kg Total Weight	
				Manual	Automatic			Manual	Automatic
1	250	Zinvert-A3H315/03	60	2600	3200	2675	1586	2010	2310
2	315	Zinvert-A3H400/03	75	2950	3550	2675	1586	2262	2562
3	355	Zinvert-A3H450/03	105	2950	3550	2675	1586	2502	2802
4	400	Zinvert-A3H500/03	105	2950	3550	2675	1586	2563	2863
5	450	Zinvert-A3H560/03	105	2950	3550	2675	1586	2643	2943
6	500	Zinvert-A3H630/03	120	2950	3550	2675	1586	2713	3013
7	560	Zinvert-A3H700/03	150	2950	3550	2675	1586	2844	3144
8	630	Zinvert-A3H800/03	150	2950	3550	2675	1586	2935	3235
9	710	Zinvert-A3H900/03	180	2950	3550	2675	1586	3035	3335
10	800	Zinvert-A3H1000/03	210	2950	3550	2675	1586	3255	3555
11	900	Zinvert-A3H1150/03	245	2950	3550	2675	1586	3591	3891
12	1000	Zinvert-A3H1250/03	245	2950	3550	2675	1586	3841	4141
13	1120	Zinvert-A4H1400/03	270	4800	5400	2675	1200	4386	4686
14	1250	Zinvert-A4H1550/03	300	4800	5400	2675	1200	4586	4886
15	1400	Zinvert-A4H1800/03	360	4800	5400	2675	1200	4999	5299
16	1600	Zinvert-A4H2000/03	400	4800	5400	2675	1200	5598	5898
17	1800	Zinvert-A4H2250/03	480	6680	7280	2675	1586	6898	7198
18	2000	Zinvert-A4H2500/03	480	6680	7280	2675	1586	7198	7498
19	2250	Zinvert-A4H2800/03	540	7200	7800	2710	1586	7623	7632
20	2500	Zinvert-A4H3150/03	600	7200	7800	2710	1586	8123	8177
21	2800	Zinvert-A4H3500/03	720	7200	7800	2710	1586	8323	8623
22	3150	Zinvert-A4H4000/03	800	7200	7800	2710	1586	8623	8923

▸ Ultra-large capacity HVFD Selection Table

NO.	Transformer Capacity (kVA)	Inverter Model	A Rated unit current output	Unit configuration
1	20000	Zinvert-S4H20000/10F	1150	ZINVU-1150/45F-175D-C1
2	25000	Zinvert-S4H25000/10F	1450	ZINVU-1450/45F-175D-C1
3	30000	Zinvert-S4H30000/10F	1750	ZINVU-1750/45F-175D-C1
4	40000	Zinvert-S4H40000/10F	2300	ZINVU-2300/45F-175D-C1
5	50000	Zinvert-S4H50000/10F	2900	ZINVU-2900/45F-175D-C1
6	60000	Zinvert-S4H60000/10F	3500	ZINVU-3500/45F-175D-C1
7	12000	Zinvert-S2H12000/06F	1150	ZINVU-1150/45F-175D-C1
8	15000	Zinvert-S2H15000/06F	1450	ZINVU-1450/45F-175D-C1
9	18200	Zinvert-S2H18200/06F	1750	ZINVU-1750/45F-175D-C1
10	24000	Zinvert-S2H24000/06F	2300	ZINVU-2300/45F-175D-C1
11	30000	Zinvert-S2H30000/06F	2900	ZINVU-2900/45F-175D-C1
12	36400	Zinvert-S2H36400/06F	3500	ZINVU-3500/45F-175D-C1
13	6000	Zinvert-S1H6000/03F	1150	ZINVU-1150/45F-175D-C1
14	7500	Zinvert-S1H7500/03F	1450	ZINVU-1450/45F-175D-C1
15	9000	Zinvert-S1H9000/03F	1750	ZINVU-1750/45F-175D-C1
16	12000	Zinvert-S1H12000/03F	2300	ZINVU-2300/45F-175D-C1
17	15000	Zinvert-S1H15000/03F	2900	ZINVU-2900/45F-175D-C1
18	18000	Zinvert-S1H18000/03F	3500	ZINVU-3500/45F-175D-C1

▸

4800

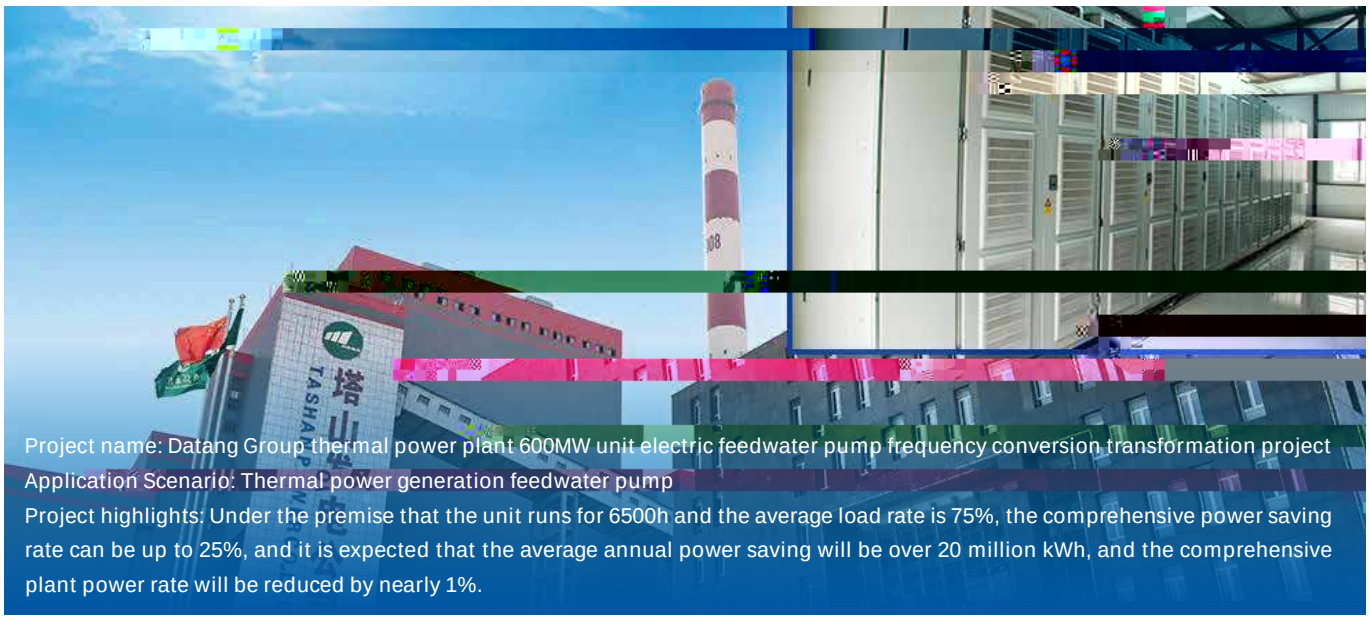


Project Name: Double-drive semi-autogenous grinding mill project for Tibet mine of China Gold Group
Application Scenario: Iron and Steel Metallurgy
Project highlights: Altitude of 4800 metres, solving the problem of power balance of dual-drive semi-autogenous mills during frequency conversion operation, breaking the technical monopoly of a well-known foreign company.

▸ 600MW

6500h 75% 25% 2000

1%



Project name: Datang Group thermal power plant 600MW unit electric feedwater pump frequency conversion transformation project
Application Scenario: Thermal power generation feedwater pump
Project highlights: Under the premise that the unit runs for 6500h and the average load rate is 75%, the comprehensive power saving rate can be up to 25%, and it is expected that the average annual power saving will be over 20 million kWh, and the comprehensive plant power rate will be reduced by nearly 1%.

20000kVA 150 250





Afteo v ξ˜ γ v - Ό γ ι

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