

检索号	QQHP-2023-028
商密级别	普通商密



	350MW
	/

1.

1

"

"

"

" III-5

11.5km 9

2

GB3095-2012

2021

2021

PM₁₀ NO₂ SO₂ CO O₃

PM_{2.5}

2022 9

PM_{2.5}

TSP

5

" " < 2012 >
< 2012 > 2012 98

5

" "

" "

" "

" "

"

220kV

"

"

220kV

0.9702
0.9497

2020

	3 25	2026	4	
--	---------	------	---	--

3.

HJ1113-2020

HJ1113-2020

1.2

HJ1113-2020

	HJ1113-2020		
1			/
2			
3			
4			
5	0	2	
6			

HJ1113-2020

4

--	--

2.1	1
------------	---

2.2

	2021 280	2021
	1200MW	
	350MW	
1200MW		
"	1200MW	"
	500MW	700MWp
324MW/648MWh		2 " 220kV "
220kV		0.970 14.55
0.831	0.046	0.093
		2 240MVA 220kV 1
35kV 18		
		1200MW
	1200MW	220kV

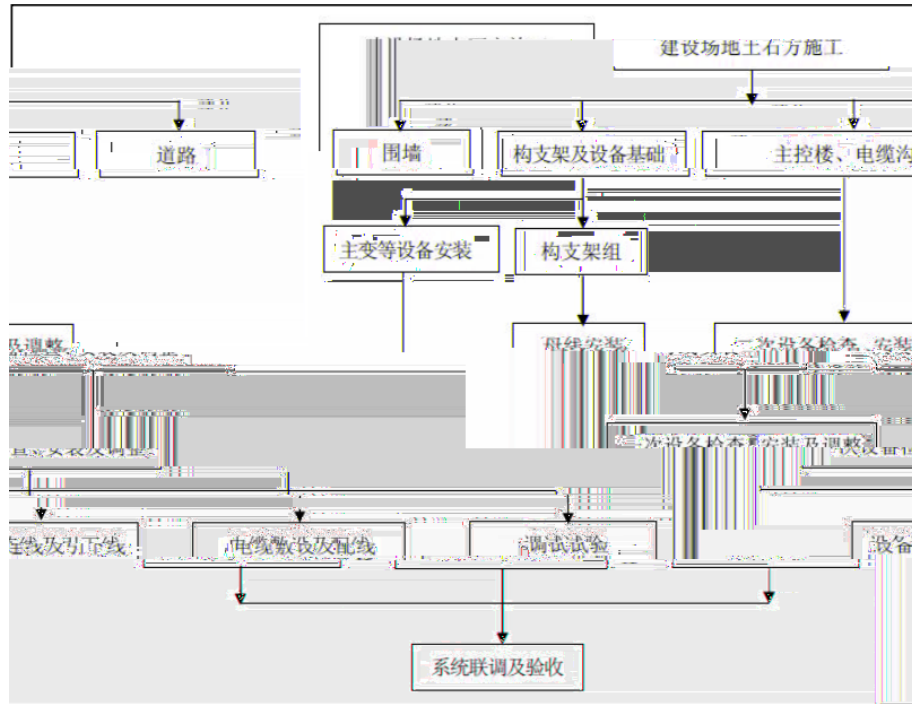
2.3

	220kV	2× 240MVA
220kV	1 II	35kV

2.4					#1	#2
	220kV		35kV			
		220kV		220kV	SVG	
					80m ³	
	65t	0.895t/m ³	72.6m ³			
			100%		MU15	
	M10		C30		P6	
			1:2			
	50				GB18597-2023	
					0.831	12.47
		0.970	14.55			
	220kV		4			

2.5

2.2



2.2

220kV

9

3.1

2013 82

3.2

2022 3 2021

1 1

2021

5

GB3838-2002 III

2021

6

2 III

III

2 III

V

2

2021 1

" — %

3.1

		g/m ³	g/m ³	%	
SO ₂		11	60	18.33	
NO ₂		27	40	67.5	
PM ₁₀		68	70	97.14	
PM _{2.5}		37	35	105.71	
CO	95	800	4000	20	
O ₃	8h 90	155	160	96.88	

2021 1 22 <
 2019-2023 > 2025 PM₁₀ 20 g/m³ PM_{2.5}
 42 g/m³ 2030 PM₁₀ 64 g/m³ PM_{2.5} 35 g/m³
 298 600
 2019-2030

3.4

220kV 0.5 V/m~0.6V/m
 0.030 O~0.047 O
 GB8702-2014 4000V/m O

3.5

2023 5
 5

3.4.1

A

3.4.2

1
 220kV
 2

3.2

		%	m/s	
2023 5 5				
13:30~15:10	19~23	67~74	1.0~2.2	
2023 5 5	13~16	64~70	1.5~2.0	
22:00~23:20				

3.4.3

3.4.4

1

GB3096-2008

2

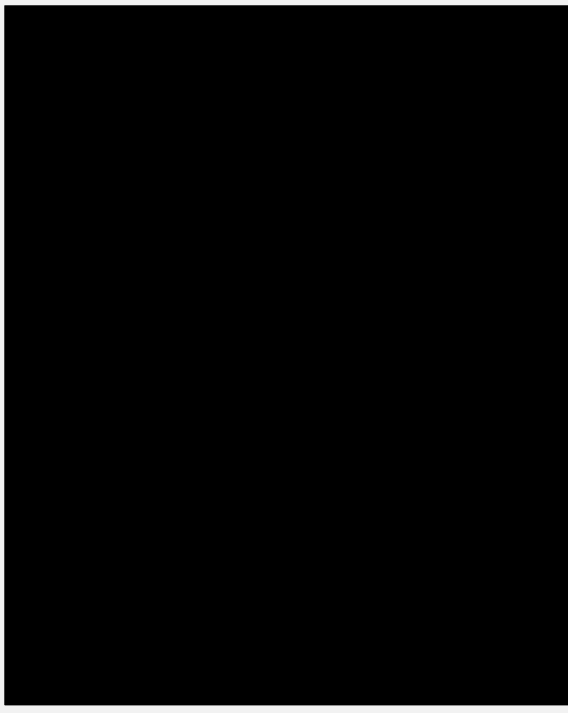
3.3

			/
AWA5688 / AWA6022A	10332614/ 2018917	28dB(A) 133dB(A) 20Hz 12.5kHz 94dB(A)/114dB(A) 1000Hz	E2023-0040736 2023.3.20~2024.3.19/ E2023-0040737 2023.3.20~2024.3.19

3.4.5

3.4 220kV

dB(A)

220kV		45	43	2
		46	43	
		44	42	
		45	43	
		46	43	
		46	44	
		45	42	
		46	44	
		46	43	
		45	43	
		45	44	
		46	43	
		44	42	

1

2

GB3096-2008

GB/T15190-2014

3.5

3.4 220kV

44dB(A)~46dB(A)

42dB(A)~43dB(A)

GB3096-2008 2

60dB(A)

50dB(A)

44dB(A)~46dB(A)

42dB(A)~44dB(A)

GB3096-2008

4		-70	127	/	86			NW 1~2
5		-1	129	/	52			N 1~3
6		9	132	/	55			N 1~2
7		47	131	/	54			N 3
8		66	131	/	54			N 3
9		80	119	/	42			N 1~3

[1]

W

NW

N

0,0,0

SW



3.1

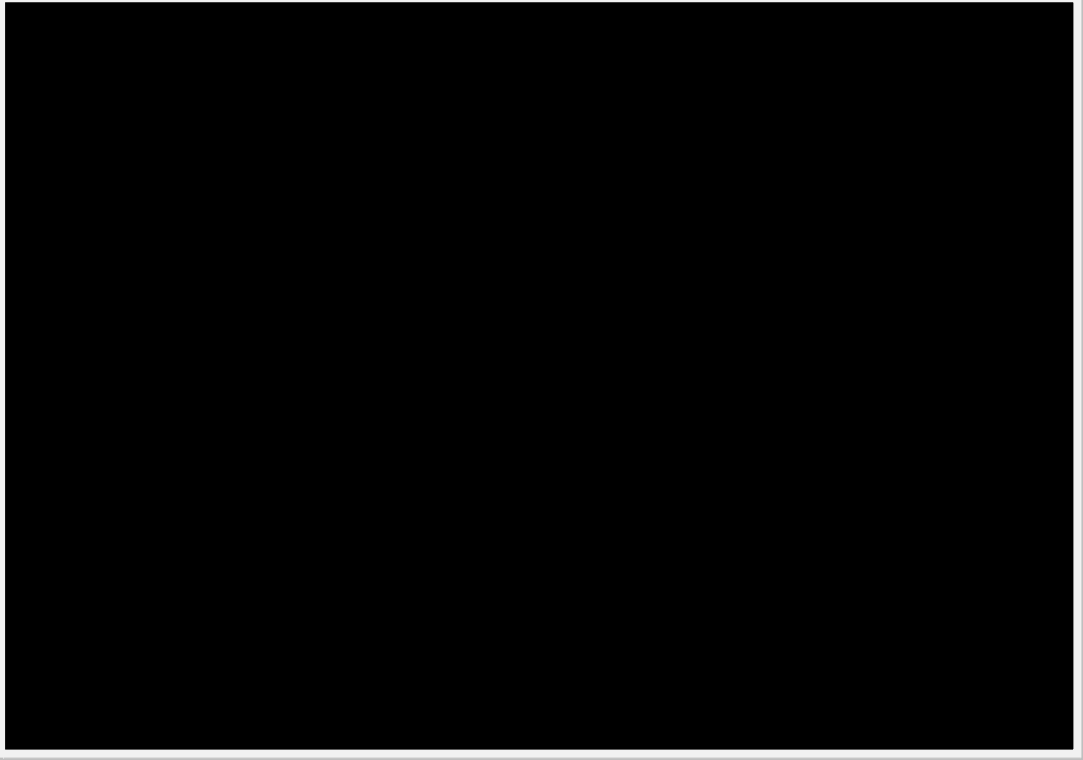
220kV

3.7.3

HJ24-2020

40m

3.2



3.2

	<p>3.8</p> <p>1</p> <p style="text-align: center;">GB3096-2008</p> <p>GB/T15190-2014 220kV</p> <p>GB 3096-2008 2</p> <p>2</p> <p style="text-align: center;">GB8702-2014 1" "</p> <p style="text-align: center;">4000V/m O</p> <p>3</p> <p style="text-align: center;">220kV</p> <p>GB12348-2008 2 60dB(A) 50dB(A)</p> <p style="text-align: right;">GB12523-2011</p> <p style="text-align: center;">70dB(A) 55dB(A)</p>

4.1

$$L_{1+2} = 10 \lg [10^{\frac{L_1}{10}} + 10^{\frac{L_2}{10}}]$$

4.4

1

2

3

4.5

4.5

m³

	0.73	0.73	0	
	0.73	0.73	0	

4.5

0.73 m³

0.73 m³

4.5

1

220kV

30

150L/ · d

80%

3.6m³

GB50015-2019

12~24h

12	#1 SVG	[REDACTED]	17.5	13.5	2.0	60dB(A)/ 1m	/	
13	#2 SVG	[REDACTED]	23.5	30.5	2.0	60dB(A)/ 1m	/	
14	#2 SVG	[REDACTED]	17.5	25.5	2.0	60dB(A)/ 1m	/	
15	#2 SVG	[REDACTED]	13.5	30.5	2.0	60dB(A)/ 1m	/	
16	#2 SVG	[REDACTED]	17.5	33.5	2.0	60dB(A)/ 1m	/	

[

	Aatm	Agr	Abar	Amisc			
		D_c		A_{div}			
			$L_A r = L_A r_0 - A_{div}$				
	$L_A r -$			dB(A)			
	$L_A r_0 -$	r_0	A	dB(A)			
	$A_{div} -$						
		b	a b a	r			
	1 7		Adi				
	2 7 7]		3dB	< d ϕ r/r0			
	3 r>b		6dB	< d - ϕ r/r0			
			SVG				
			2				
			1m	4.7			
	4.8~ 4.9						
		4.7		1m			
			1m	m			
			#1	#2	#1 SVG	#2 SVG	
1		1m	36.0	36.0	79.5	79.5	
2		1m	25.5	14.5	8.5	26.5	
3		1m	74.0	74.0	14.5	14.5	
4		1m	58.5	69.5	75.0	57.0	
		4.8					
			/m ^[1]				
			X	Y	Z	/m	/
1			-126	-84	/	153	1 SW
2			-69	-8	/	73	2 1 SW
3			-72	81	/	73	W 2

4	6	-70	127	/	86		NW 1~2
5	3	-1	129	/	52		N 1~3
6	2	9	132	/	55		N 1~2
7		47	131	/	54		N 3
8		66	132	/	54		N 3

9

4.10

dB(A)

	*						
		#1	#2	#1 SVG	#2 SVG		
		33.9	33.9	22.0	22.0	37.2	60
		33.9	33.9	22.0	22.0	37.2	50
		36.9	41.8	41.4	31.5	45.5	60
		36.9	41.8	41.4	31.5	45.5	50
		27.6	27.6	36.8	36.8	40.3	60
		27.6	27.6	36.8	36.8	40.3	50
		29.7	28.2	22.5	24.9	33.1	60
		29.7	28.2	22.5	24.9	33.1	50

* **SVG 24**

		4.11				dB(A)							
		dB(A) /		dB(A) /		dB(A) /		dB(A) * /		dB(A) /		dB(A) /	
1		46	43	46	43	60	50	22.9					

8	[REDACTED]	46	43	46	43	60	50	28.1	28.1	46.1	43.1	0.1	0.1		
9		44	42	44	42	60	50	28.5	28.5	44.1	42.2	0.1	0.2		

* SVG 24

5.1

1

2

3

4

5.2

5

	5.3
	5.4
	5.5

GB18597-20

5.13

1

2

1~2

3

	1			
	2			
	3			
	4			

		/	/	/



	/	/	/	/
			/	/

			M10 P6 1:2 50 GB18597-2023	
	/			
	/	/	/	/

350MW

350MW

1.	.....	1
1.1	.....	1
1.1.1	.....	1
1.1.2	.....	1
1.1.3	.....	1
1.2	.....	1
1.3	.....	2
1.4	.....	2
2.	.....	3
2.1	.....	3
2.1.1	.....	3
2.1.2	.....	3
2.1.3	.....	4
2.1.4	.....	4
2.1.5	.....	4
2.1.6	.....	4
3.	.....	5
3.1.1	.....	5
3.1.2	.....	6
4.	.....	9

1.

1.1

1.1.1

1 2014

2015 1 1

2 2018

2018 12 29

1.1.2

1 HJ2.1-2016

2 HJ24-2020

3 HJ681-2013

4 GB 8702-2014

5 HJ1113-2020

6

1.1.3

1 2022 12

1.2

HJ24-2020

1-1

1-1

	220kV			

1-1

220kV

1.3

1

1-2

			kV/m		kV/m
			0		0

2

GB8702-2014 1

50Hz

4000V/m

1 0

3

220kV

40m

4

220kV

1.4

40m

220kV

67%~74%

2.1.3

2.1.4

1

HJ681-2013

2

2-1

				/
SEM-600	SEM-600 /LF-01	C-0609/ G-0609	1Hz 100kHz 0.5V/m 100kV/m 30nT~3mT	2022F33-10-4302511002 2022.12.5~2023.12.4

2.1.5

2-2

2-2

			V/m	O
1	220kV	1	0.6	0.047
2	220kV	2	<0.5	<0.030
3	220kV	3	<0.5	<0.030
4	220kV	4	<0.5	0.036

: **220kV**

2.1.6

2-2 220kV

0.5 V/m~0.6V/m

0.030 O) / 7 O

GB8702-2014

3.

3.1

HJ24-2020

220kV

3.1.1

1

220kV

220kV

3-1

3-1

220kV

	220kV	220kV
	3× 240MVA	2× 240MVA
220kV	GIS	GIS
220kV		

35

350MW

1nT~20mT

4

2020 11 3

7~16

28~43%

3.0m/s

5

161712050220

6

220kV

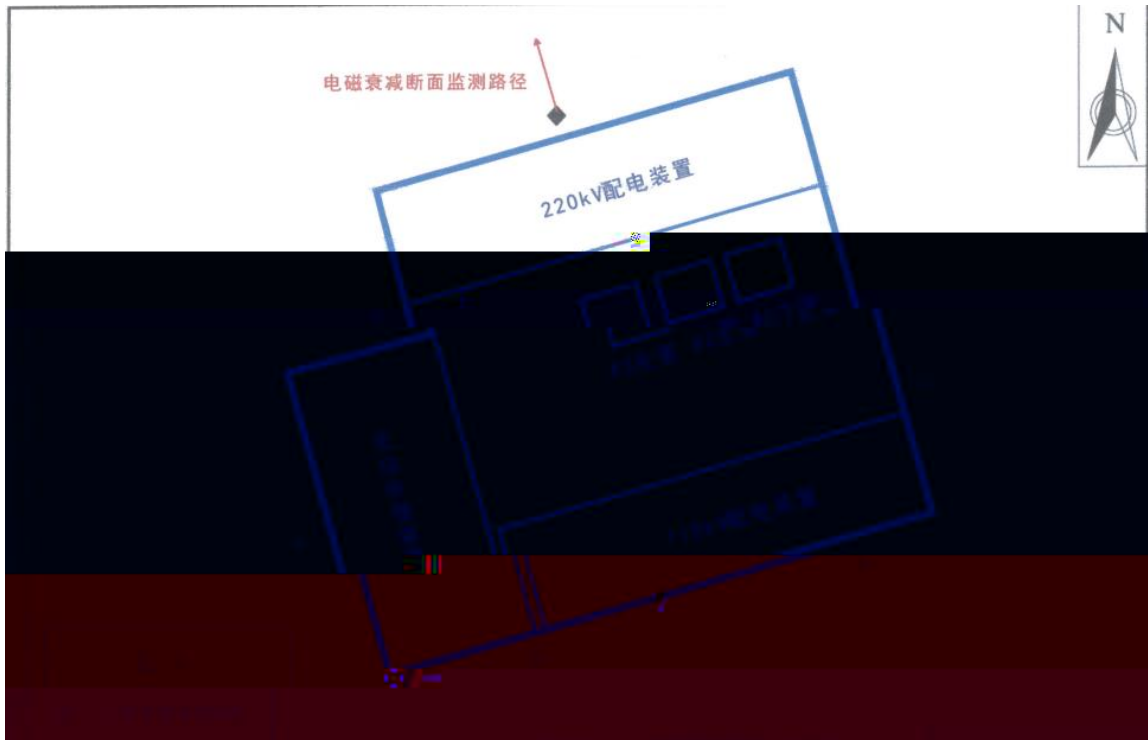
3-2

3-2

220kV

		V/m	O
	5m	116.8	0.064
	5m	7.4	0.040

220kV



3-1

3-2

220kV

5m

5.2V/m~275.8V/m

0.040 O) 2 O

220kV

14.3V/m~68.5V/m

0. -1 O) 1/ O

220kV

0.5 V/m~0.6V/m

0.030 O) / 7 O

GB8702-2014

4000V/m

O

) 2 O

10 O

GB8702-2014

"

"

4000V/m

O

4.

350MW