8

2015 1674 ≤ 60

2022 8 2023 1 1

1674

1.

1.1

1.2

1.2.1.

1 2021 9 1

2 2024 11 1

3 591 2013 12 7
645

4 708 2019 4 1

5 1
2019 1 1

6 3 2015
5 29 80 2015 7 1

7 16
2008 2 1

8 44 2015 5
29 80 2015 7 1
9 55
2015 3 23 79 2015 7 1
10 2 2019 9 1

11 2025 5
2025 1 27
12
2020 3 2020 4 1
13 < >
2021 12 2021 12 31

2022 6 2022 4 2
14 “ ”
2025 4 2025 2 10
15
2016 8 2016 2 5
16 2015
2015 5 2015 5 1
17 2015
2015 80 2015 8 19
18
2011 95 2011 7 1
19
2011 142 2011 7 1
20

2017 121 2017 11 13

21

2019 78

22

2019 62 2019 12 26

23

2020 1 2020 5 30

24 341 2021 5 18

25

2017 45 2017 12 23

26

2012 144 2012 8 30

27 < >

2017 22 2017 11 28

28

2018 21

2018 8 31

29 < 2015 > “1674 [≤60] ”

“1674 ”

2022 8 2023 1 1

30 < 2015 >

2022 300 2023 1 1

31

2022 317 2022 12 20

1.2.2.

1˜ 50156-[illegible]1

2˜ GB[illegible]4-2012

3 GB 12268-2012

4 GB 18218-2018

5 GB 17914 2013

6 GB 55036-2022)

7 GB 55037-2022)

8 GB 50058-2014

9 AQ 3009-2007

[illegible] GB 6441-1986

1[illegible] GB/T 13869-2022

1[illegible] GB 50016-2014 2018

[illegible] GB 50140-2005

GB 50057-2010

GB 12158-2006

16 GB/T 50610-2010

17 GB20952-2020

18 GB 50395-2007

19 GB/T 29639-2020

20 GB/T12801-2008

21 GB5083-2023

22 AQ 3010-2022

23 AQ 3018-2008

24 GB30871-2022

25 8 XBB

28 - SH/T 3178-2015

1.2.3.

1 2005 4

2 2002 11

3 2003 7

1.3

1

2

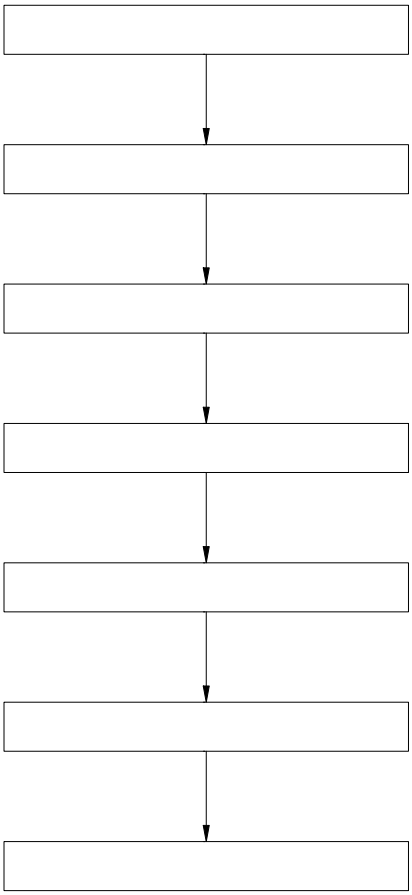
3

4

5

1.4

1-1



2.

2794m^2 FF 5 1 1

1 1 6 1

5 3 30m^3

59%

7 76%

1 45%

3

101.2kPa

103.9kPa

96.9kPa

4

540~640mm

694.0mm

242.8mm

174.9mm

5

250.0mm

6

3.8m/s

23m/s

7

28.8d

44d

8

6

1.4m

2.3

8m

6

7m 0.2m 1.2m 0.6m

5.5m

0.9m 0.5m 5

4m

18m

32m 34m

2-1

2-1 2-2

		3	14
		6	30
		6	43
		3	10
H=10m		5	17
	-	5	8
		3	9
		6	57
		6	48
		3	52
H=10m		5	66
	-	5	53
		3	23
		6	22.5
		6	35.5

	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	9
	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	9
	-	-	-	-	-	-	-	-	-	-	-	-	3	3.5	2	2
	-	-	-	-	-	-	-	-	-	-	-	-	2	3	2	2
	4	18	3	22	4	32	3.5	32.5	5	8	4	22	5	34	-	-
	8.5	23.5	6	32.5	7	24.5	6	25	7	31	6	44	-	-	-	-
	8.5	31	6	38	7	45	6	45.5	7	23	6	37	-	-	-	-
	8.5	10.5	6	19	7	16	6	16.5	7	9	6	23	-	-	-	-

2.4

2-3

1				388㎡		
2				360㎡		H=5.5m
3				150㎡		-
4				64㎡		-

2-4

	3	30m^3		FF
	2	30m^3		FF
	4	CS32J1110F		
	1	CS32J1110F		
	1	CS32J1110F		
	1	TLS2		1
	14	-	-	5 4 4 1
	1	-		

2.5

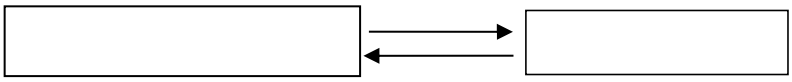
10 1

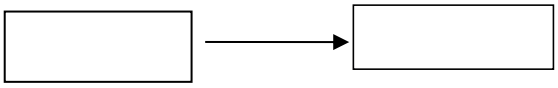
2.6

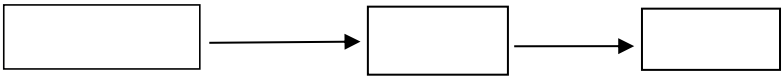
1.0 1.2

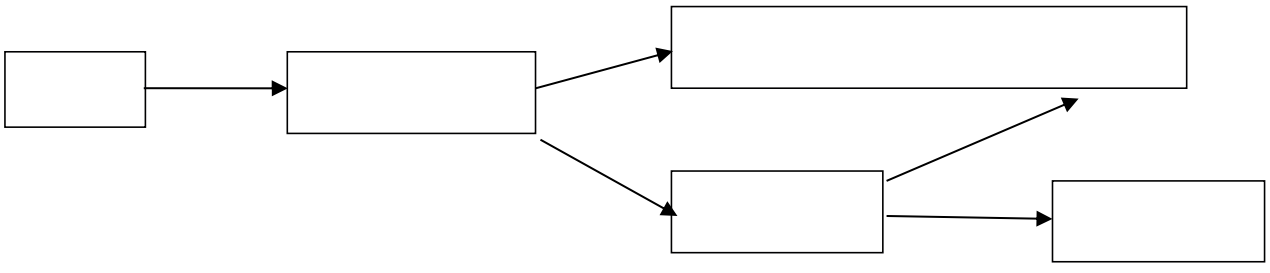
150Pa

2-2 2-3 2-4 2-5 2-6









2.7

2.7.1

1

91210105750781440E

2024 12 09

2

[2022]000155

2024 12 23

3

(1062017007)[2024]0106ZSY162

2024 10 22

4

2.7.2

1

2

a. 5

b.

c.

3

4

380/220V TN-S

UPS

5

5

6

9 5kg 2

5kg 4 2kg CO_2 8 35kg

2 5kg 2 $2m^3$ 5kg

2 2kg CO_2 4

7

14 5

4 4 1

3.

3.1

3.1.1

2018 1 2

1

2

3.1<

Q_1 Q_2… Q_n—— t

3

3.1.3

23 ≤ 60 3-1

3-1

1		200t
2		5000t

$90m^3$ 0.75

67.5t $60m^3$ 0.89 53.4t

S=67.5/200+53.4/5000=0.34818<1

,

3.2

3.2.1

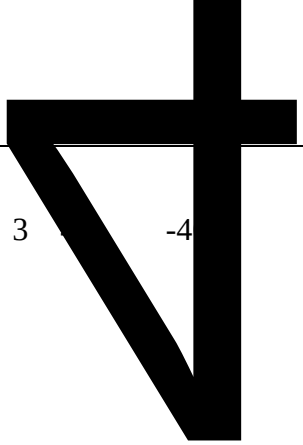
2* 1B 2

1 - 2 - 2

1630

E10 GB 18351-2017

89 92 95 98 4 =1 0.72 0.775



=1 3 -4

1.5

5

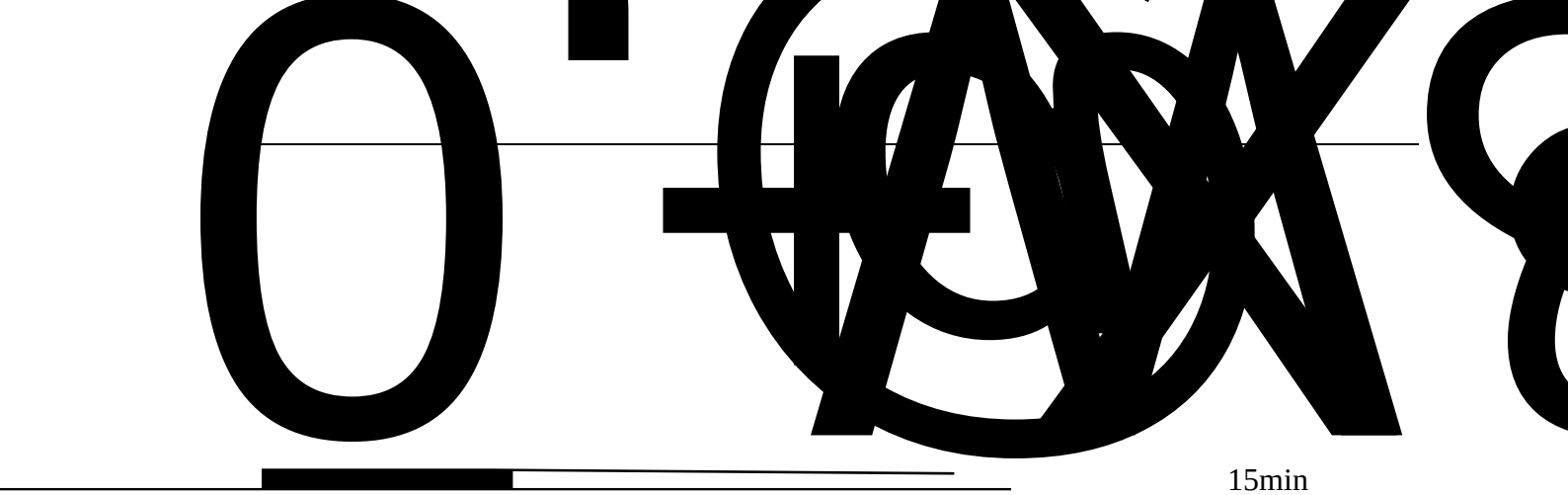
1

2

3

1000m^3

0.5m^3



15min

RsĒ η

3.2.2

1

2

3

4

3.3

3-2

1			

2

3 Aî ^ Tñ’ P • $gp •

4

5

6 m

"é

3

4

3.3.5

3.3.6

3.3.7

1

2

4.

4.1

8

1

2

3

4

5

6

7

8

4.2

5.

7

5-1

	1		
	2		
	3		
	4		
	5		

	1		
	2		
	3		
	1		
	2		
	3		
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	6		
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17
18
1
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3

1

1

2 ø

		4.0.4	4.0.4
	4	GB50156-2021 4.0.12	
	5	GB50156-2021 4.0.13	
	1	GB50156-2021 5.0.1	
	2 4m 6m 8%	GB50156-2021 5.0.2	7m 8%
	3	GB50156-2021 5.0.3	
	4 “ ” “ ”	GB50156-2021 5.0.5	“ ” “ ”
	5 3m	GB50156-2021 5.0.6	

4.0.4

12

GB50156 5.0.13-1 GB50156-2021

5.0.13

2-1 2-2

13

	$10^9\Omega$ A=0.04Vt	6.1.7		
	6. 11.2	GB50156-2021 6.1.8	FF	
	7	GB50156-2021 6.1.9	FF	
	8 80mm 4mm	GB50156-2021 6.1.10	FF	
	9	GB50156-2021 6.1.11		
	10 0.5m 0.9m 0.3m	GB50156-2021 6.1.12	0.9m 0.5m	

11

GB50156-2021

6.1.13

	5	GB50156-2021 6.2.5		
	1	GB50156-2021 6.3.1		
	2	GB50156-2021 6.3.2		
	3	GB50156-2021 6.3.3		
	4 100mm	GB50156-2021 6.3.4		

	5	GB50156-2021 6.3.5		
	6	GB50156-2021 6.3.6		
	7 50mm 1.0 1.2 25mm	GB50156-2021 6.3.7	50mm 25mm	
	8 50mm	GB50156-2021 6.3.8		

100mm 45· 100mm

T

45°

150mm

200mm 150mm

200mm

9

4m

GB50156-2021

6.3.9

2m 4m

10 50mm

GB50156-2021 50mm

6.3.10

11

2KPa~3KPa GB50156-2021

1.5KPa~2KPa 6.3.11

12

GB/T8163

4mm

$10^{8}\Omega\cdot m$

$10^{10}\Omega$

$10^{8}\Omega\cdot m$

100kV

$10^{10}\Omega$

13

GB50156-2021
6.3.13

14

GB50156-2021
6.3.14

15

2‰

GB50156-2021
6.3.15 2‰

1%

1%

0.5m

16

0.4m

0.2m 100mm

GB50156-2021
6.3.17

0.2m

0.5m

17

GB50156-2021
6.3.18

18

6.3.12

1 2.8m/s

2 GB50156-2021

6.3.19

19

GB50156-2021

GB/T21447

6.3.20

20

FF

GB50156-2021

6.5.1

21

GB50108

200mm

500mm

1 9 5

2 2 5kg 4 15kg

1 5kg 1 6 5kg

6L 2 2

1 35kg

15m GB50156-2021

5 12.1.1 2

$2m^3$ 2 $2m^3$

	2	GB50156-2021 12.3.3		
	1	AQ3010-2022 4.4		
	2	AQ3010-2022 4.4		
	3 “ ” ，	XF/T 3004-2020 8.1		
	4 “ ” “ ”	XF/T 3004-2020 8.4		

	1	GB50156-2021 13.1.1		
	2 380/220V	GB50156-2021 13.1.2	380/220V	

ь Ӊ ˮ ˊ

GB50156-2021

13.2.4

4

GB50156-2021

13.2.6

0.5mm

0.65mm 0.7mm

5 ס א

	9	GB50156-2021 13.2.11		
	10 5	GB50156-2021 13.2.12		
	11	GB50156-2021 13.2.13		
	12	GB50156-2021 13.2.14		
	13 100Ω	GB50156-2021 13.2.15		
	14 1	GB50156-2021 13.2.16	1	
	1	5.0.1		

2

5.0.5

3

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5.ђ.8 Ǯ

1

1

140kw

GB50156-2021

2m 14.1.3

2

2

	7 B GB50016	GB50156-2021 14.2.11	B	
	8 3h	GB50156-2021 14.2.12	3h	
	9	GB50156-2021 14.2.13		
	10 5.0.13 25m 3.0h	GB50156-2021 14.2.14		
	11	GB50156-2021 14.2.15		
	12	GB50156-2021 14.2.16		
	1	GB50156-2021 14.3.1		

8

6.

1

2

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“ ” “

” “ ”

4

5

6 “ ” “

”

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9

12

7.

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1.

GB50058-2014

1 0

2 1

3 2

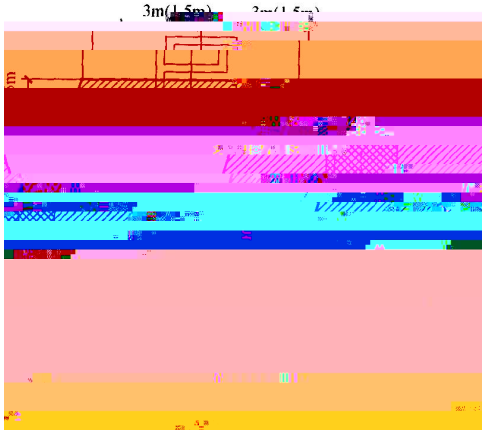
2. 1

3. 1

1 1

2 4.5m

0.15m 3m 2



4. 2

1 0

2 1.5m 0.5m

1

3 3m

1.5m 2

5. 3

1 0

2

2025