2015 1674 ≤60

2022 8 2023 1 1 1674

2022 07 05

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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

21

2019 78

22

2019 62 2019 12 26

23

2020 1 2020 5 30

24 341 2021 5 18

25

2 GB6944-2025

3 GB 12268-2025

4 GB 18218-2018

5 GB 17914 2013

6 GB 50058-2014

7 AQ 3009-2007

8 GB/T 6441-1986

9 GB/T 13861-2022

10 GB 50140-2005

11 GB 50057-2010

12 GB 12158-2006

13 GB/T 50610-2010

14 GB 50395-2007

15 GB/T 29639-2020

16 YJ/T 9007-2019

17 (AQ 3010 2022)

18 GB30871-2022

19 (XF/T 3004 2020)

20 GB55036-2022

21 GB/T 13869-2017

22 GB/T 34661-2017

23 GB/T 35579-2017

24 GB/T 50759-2022

25 - SH/T 3178-2015

26 AQ 8001-2007

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1 2005 4

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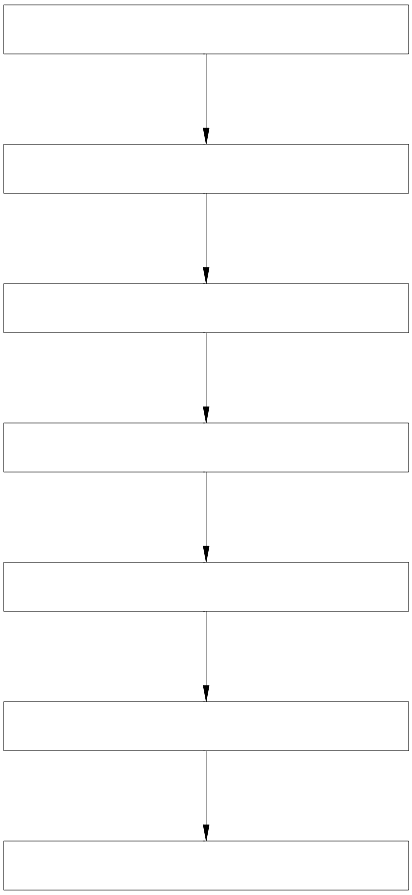

1J1

2.

2248m^2 SF 5 1 4

/

5 3 50m^3 2 20m^3

GB50156-2021 3.0.9

115m^3

2023 7 1m^3

2.1

13.5m 1 25.5m 5.7m

2 13m 3

8m

2.2

1

19.8

38.4

-33

28.7

-20.4

2

68%

87%

42%

3

102.22Kpa

4

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1	-	5	51.7	
		3	71.5	
		3.5 ŧ	13.5 (	m"
3	-	5		

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0.5	12	0.5	0.6	-	-	-	-	-	-	-

2.4

2-3

2-3

1			144.54m^2		
2			326m^2		H=6.5m
3			25m^2		
4			16m^2		-

24

2-4

1.		2	20m^3	-	SF
2.		3	50m^3	-	SF
3.		2	ICJSK-50H424 4Q		1 1.2 IIAT3
4.		2	ICJSK-50H424 4Q		IIAT3
5.		1	SK		IIAT4
6.		1	RTL-500B	-	1
7.		1	DDC-A		1
8.		1	WT-LLD		1
9.		16	-	-	-
10.		1	DCGN-20		-
11.		1	-		-

2.5 ᵕ̈ u

9 1

2.6

15min

5min

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GB 20952-2020 ≤25g/m^3

150Pa

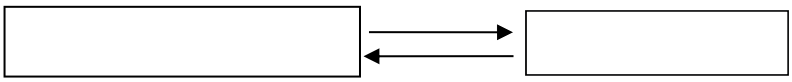
-150Pa 0Pa

/

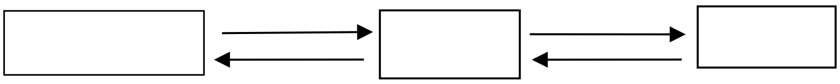
1%

4 m

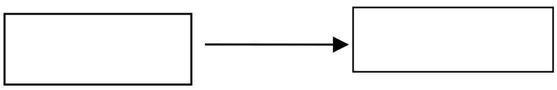
2-2 2-3 2-4 2-5



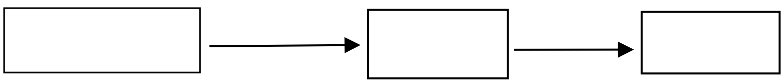
2-2



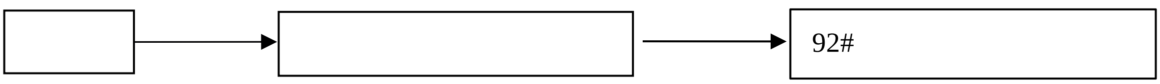
2-3



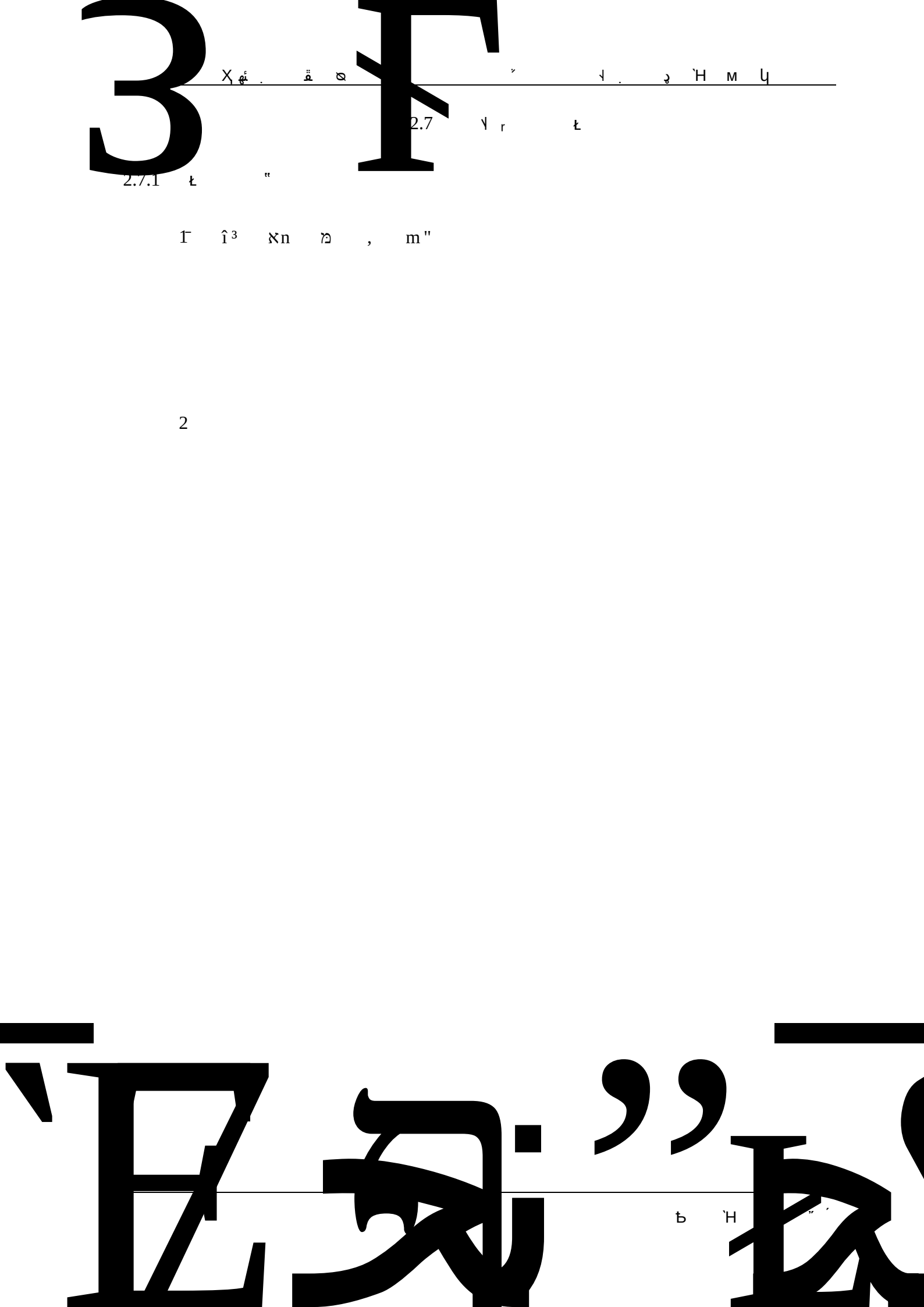
2-4



2-5



2.6



c.

3

4

380/220V TN-S

UPS 2h

90min

5

TN-S

2

5

6

8 5kg 2 5kg

7 5kg 2 CO_2 2 35kg

2 5kg 2 $2m^3$

7

16 6

10

90%

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Q_1 Q_2… Q_n—— t

3

3.1.3

23 ≤ 60 3-1

3-1

1		200t
2		5000t

40m^3 0.75

30t 150m^3 0.89 133.5t

S=30/200+133.5/5000=0.1767<1

3.2

3.2.1

2* 1B 2

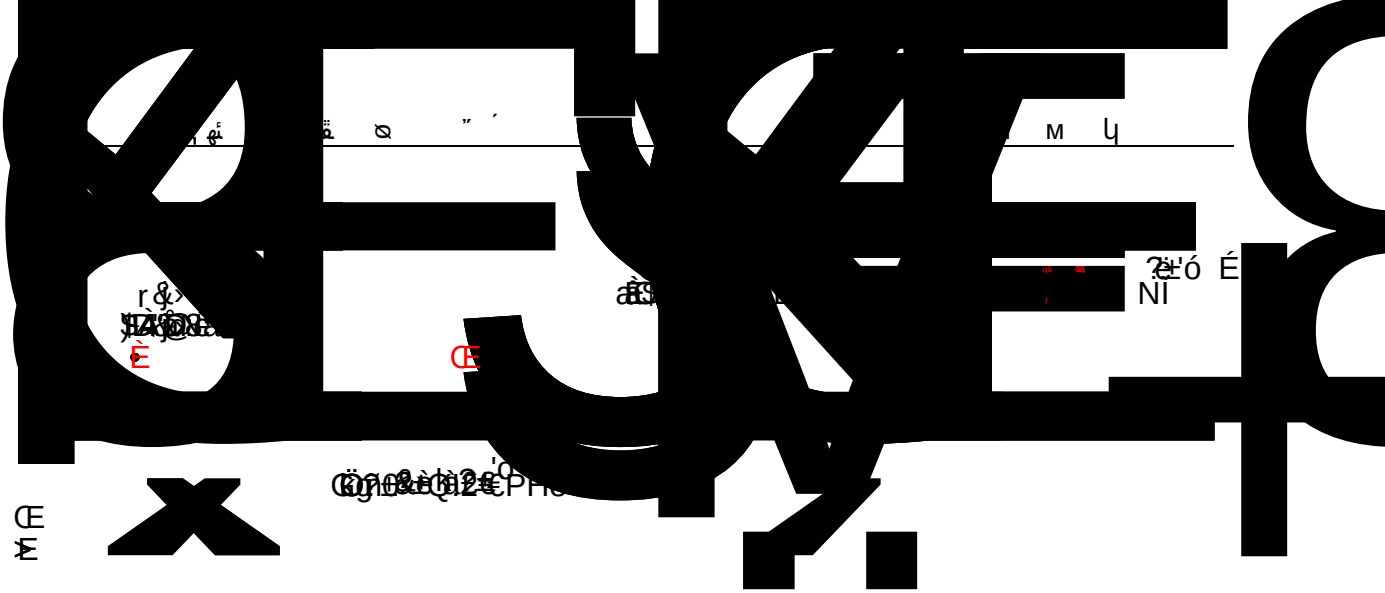
1 - 2 - 2

1630

E10 B 89

92 95 98 4 =1 0.72 0.775 =1

3 4 -46 1.4 7.6% 415 530



5

1 30

2

3

1000m^3

1

15min

50m

300m

1674

-18 =1 0.87 0.9

282-338

X_1

3.2.2

1

2

3

4

3.3

3-2

3-2

1					
2					

3

[redacted]

4

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6

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2

3.3.5 φ ₵

3.3.6 ﻄﻤ

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3.3.7 ﺤﻤﻴ

2m 2m

3.3.8 ̀ו ל ᴺ

1

2

X، بأ .

4.

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1

GB50156-202

1 3.0.4

2 GB50156 3.0.9

		1 4.0.12
	5	GB50156-202 1 4.0.13
	1	GB50156-202 1 5.0.1
	2 4m 6m 8%	9.5m GB50156-202 1 5.0.2
	3	GB50156-202 1 5.0.3
	4 “ ” “ ”	“ ” GB50156-202 “ ” 1 5.0.5
	5 3m 1.2m³ 100mm 1.2m	IIAT4 1m³ GB50156-202 1 5.0.6 100mm 1.2m
	6	

		GB50156-202 1 5.0.7		
	7	GB50156-202 1 5.0.8		
	8 300m^2	GB50156-202 1 5.0.9	144.54m^2	
	9 4.0.4 “ ” “ ”	GB50156-202 1 5.0.10		
	10	GB50156-202 1 5.0.11		
	11 2.2m 4.0.4 1.5 25m 4.0.4	GB50156-202 1 5.0.12		
	12 GB50156 5.0.13-1	GB50156-202 1 5.0.13	2-1 2-2	
	13			

	C	GB50156-202 1 5.0.16		

5-4

1

GB50156-2021

6.1.1

A=0.04Vt

6.

GB50156-2021

11.2

GB50156-2021
6.1.13
12

GB50156-2021
6.1.14
13

90%

95% GB50156-2021
6.1.15

14

GB50156-2021
6.1.16
0.8L/h
15

SF
SH GB50156-2021
3022 6.1.17

1
GB50156-2021
6.2.1

2

GB50156-2021
50L/min 5-50L/min
6.2.2

3
GB50156-2021
6.2.3
4

GB

7

50mm

50mm

GB50156-2021

6.3.7

1.0

1.2

25mm

1.0 1.2

25mm

8

50mm 100mm 100mm

45° T 45°

GB50156-2021

6.3.8

150mm 150mm

200mm

200mm

	9 4m 2m	GB50156-2021 6.3.9	4m	
	10 50mm	GB50156-2021 6.3.10	50mm	
	11 2KPa~3KPa 1.5KPa~2KPa	GB50156-2021 6.3.11		
	12 GB/T8163 4mm 4mm	GB50156-2021 6.3.12	4mm $10^8\Omega\cdot m$ $10^{10}\Omega$	

	10^8Ω·m 10^{10}Ω 100kV			
	13	GB50156-2021 6.3.13		
	14	GB50156-2021 6.3.14		
	15 2‰ 1%	GB50156-2021 6.3.15	2‰ 1%	
	16 0.4m 0.2m 100mm	GB50156-2021 6.3.17	0.7m 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

GB50156-2021
6.5.1

22

100mm

4mm

200mm

10mm 30mm

	5%			
	25 3.5mm	GB50156-2021 6.5.6	3.5mm	

5-5

1

8

2 2 5kg

1 5kg 1

5kg

6L 2 2

2

1 35kg

GB50156-20 35kg

15m

21 12.1.1 2 5kg

2

5 $2m^3$

$2m^3$

2 $2m^3$

5kg

7

CO_2

2

5kg

2

2

GB50140

GB50156-20

21 12.1.2

GB50140

1

GB50156-20

21 12.3.2

		8.1		
	7	XF/T 3004-2020 8.4		

5-6

1 GB50156-2021 13.1.1

2 380/220V GB50156-2021

21 13.1.5

6

LPG LNG CNG GB50156-20
21 13.1.6

IIAT3
GB50156-20
GB50058
21 13.1.7

8 IP44
IP44 GB50156-20
21 13.1.8

1
2 GB 56-20
21 13.1.1

2

4

GB50156-20
21 13.2.6

0.5mm
0.65mm 0.7mm

5

GB50156-20
21 13.2.7

6

GB50156-20
21 13.2.8

7 380/220V TN-S TN-S
380V TN-C-S

GB50156-20
21 13.2.9

8

30Ω

GB50156-20
21 13.2.10

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GB50156-20
21 13.2.11

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5 GB50156-20
21 13.2.12

11
GB50156-20
21 13.2.13

12

GB50156-20
21 13.2.14

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100Ω GB50156-20
21 13.2.15

14
1 GB50156-20 1
21 13.2.16

1

2

5-7

	2m GB50068 GB50009 GB50011		GB50011	
	3 0.15 0.2m 1.2m 0.6m 100mm 0.5m	GB50156-20 21 14.2.3	1.2m 0.2m 0.6m	
	4	GB50156-20 21 14.2.7		
	5	GB50156-20 21 14.2.9		
	6 300m^2	GB50156-20 21 14.2.10		
	7 B GB50016	GB50156-20 21 14.2.11	B	

8

GB50156-20

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21 14.2.12

1				
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19				
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5-8

	5	5	0	0
	32	32	0	0
	22	21	0	1
	45	39	0	6
	11	11	0	0
	30	29	0	1

1

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1		5kg	8
			2
2		35kg	2
		5kg	2
			$2m^3$
			2
3		5kg	7
		$2kgCO_2$	2

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7. м

GB50156-2021

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GB50058-2014

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