



ZG-dSVG



V1.2

ZG-dSVG

Ш

ZG-dSVG

Ч

Ч

Ч

Ч

Ш

Ч

Ш

Ч

Ч

Ш

Ш

ZG-dSVG

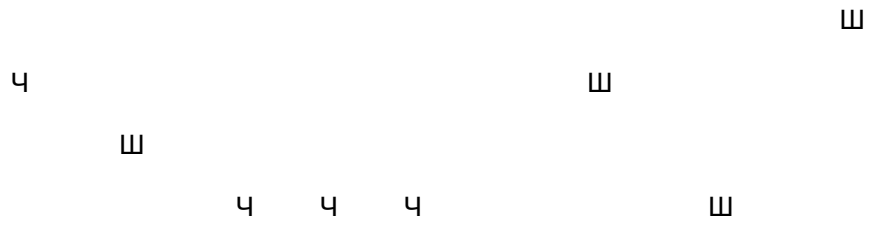
Ш

Ш

1	.....	1
1.1	.....	1
2	.....	4
2.1	.....	4
2.2	.....	4
2.3	.....	5
2.4	.....	6
3	.....	7
3.1	.....	7
3.2	.....	10
4	.....	15
4.1	.....	15
4.2	.....	15
4.3	.....	17
5	.....	19
5.1	.....	19
5.2	.....	19
5.3	.....	19
5.4	.....	20
6	.....	21
6.1	.....	21
6.2	.....	22
6.3	.....	23
6.4	.....	24
7	.....	25
8	.....	28
8.1	.....	28
8.2	.....	28
8.3	.....	28
8.4	.....	28
8.5	.....	29

ZG-dSVG

ZG-dSVG

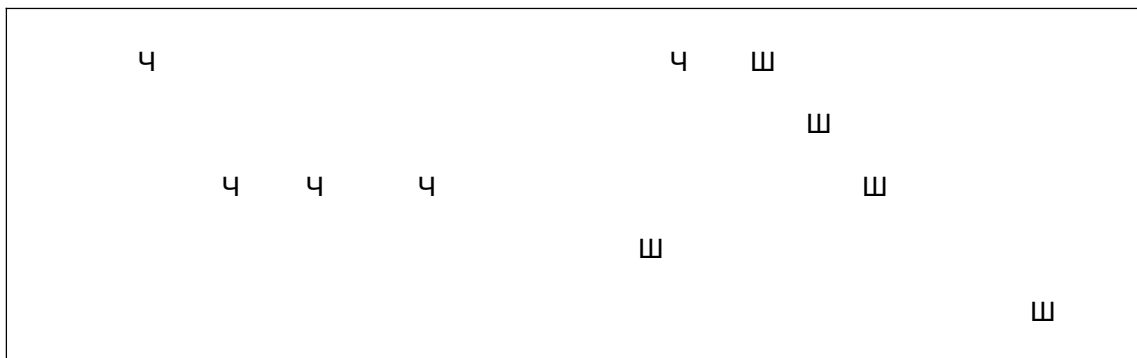
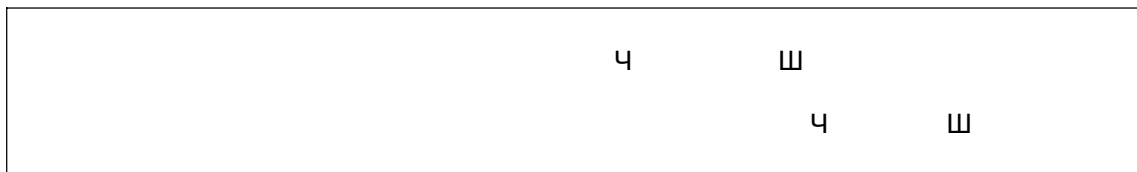


1.1

1.1.1

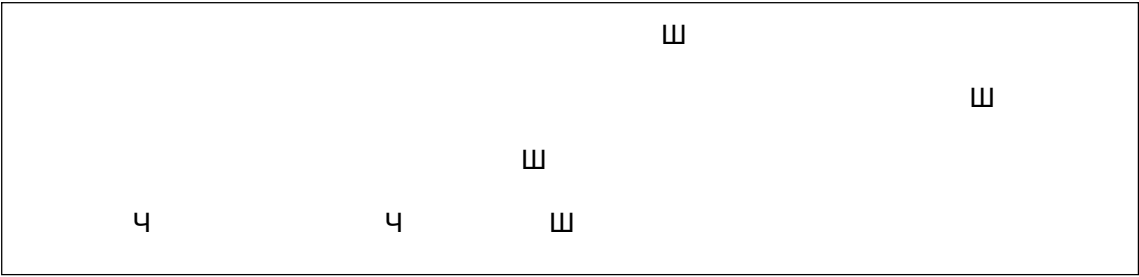


1.1.2

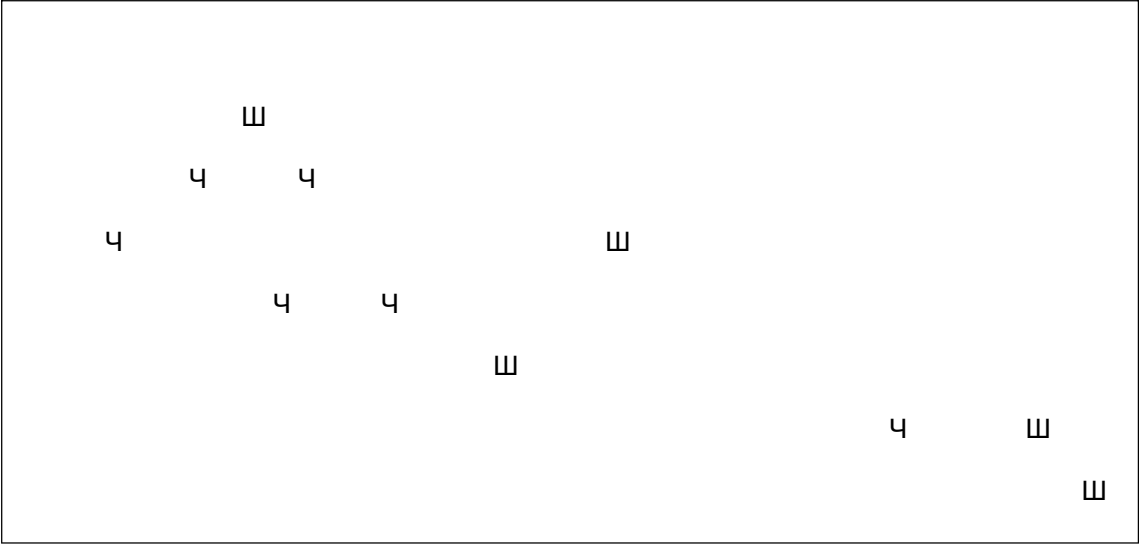


1.1.3

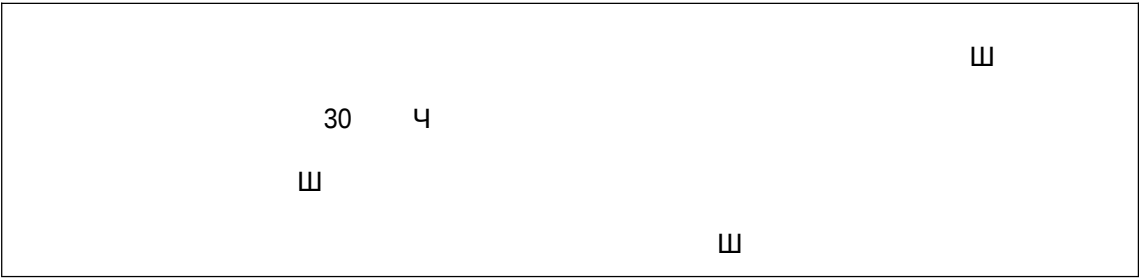


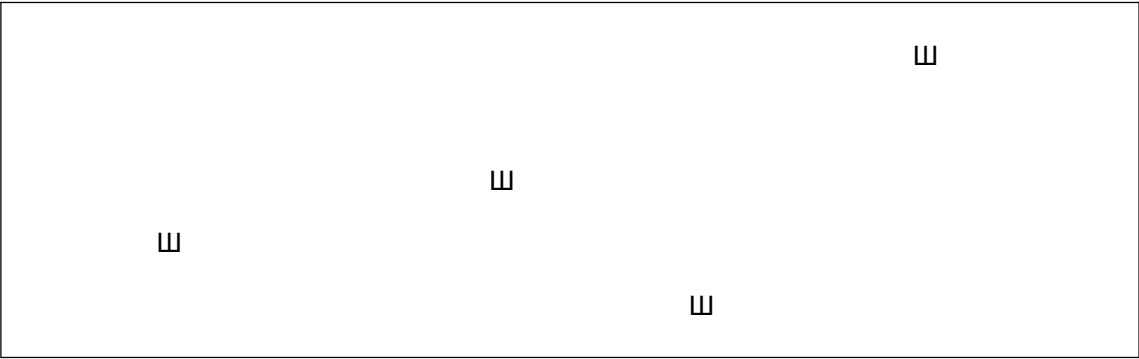


1.1.4



1.1.5





1.1.6



1.1.7



ZG-dSVG

\omega \quad \omega

\omega

\omega

\omega

2

4		<5ms
5		<3%
6	SVG	>99%
7		<1000m

2.3

SVG

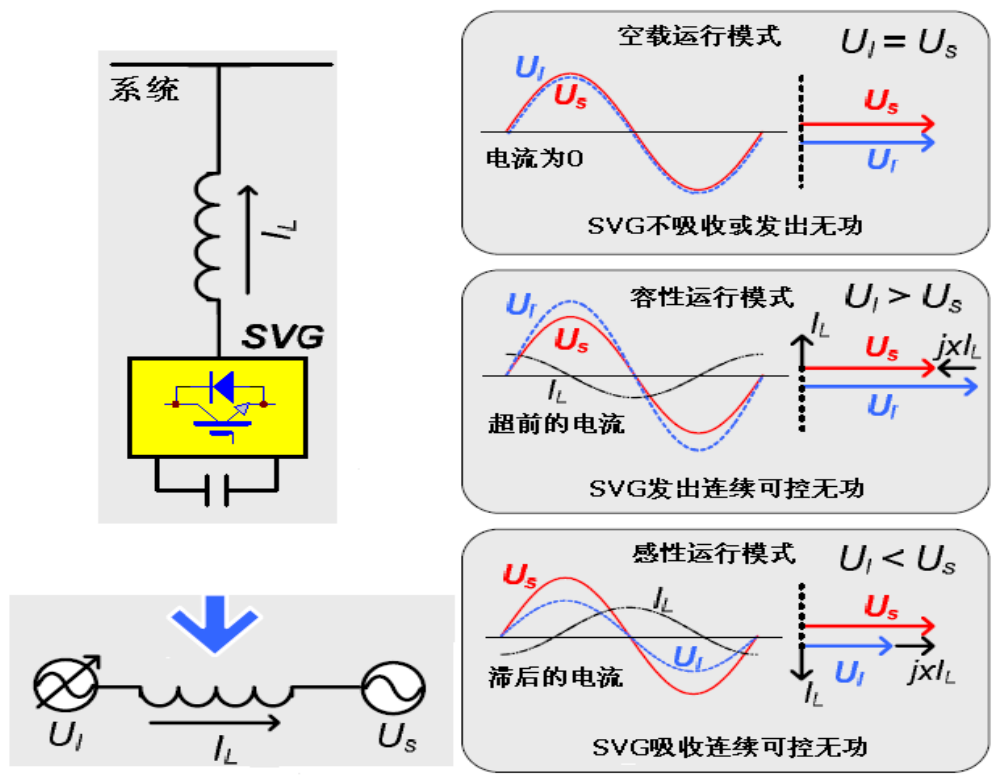
STATCOM

山

SVG

2-1

山



2-1SVG

2-1

山

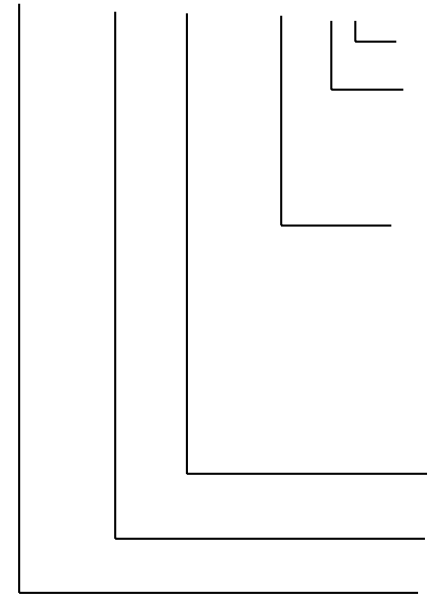
$$I_1 = (U_s - U_1) \div jX_L$$

2-1

2.4

ZG-dSVG

ZG-dSVG- □□□□□/□□□/□□

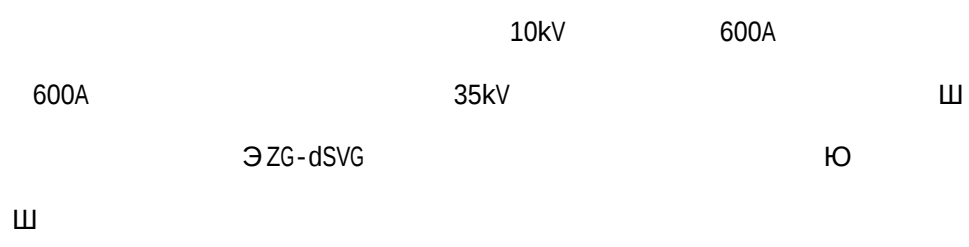


- A-Z 0-9
- Й У Ё Ъ Ы Ь
- Й У Ё
- 03 3kV
- 06 6kV
- 10 10kV
- 35 35kV
- kVar
- n H n H

10kV ± 2000kvar 12 H Й Ё

A10 ZG-dSVG-12H 2000/10Y/A10Щ

ZG-dSVG

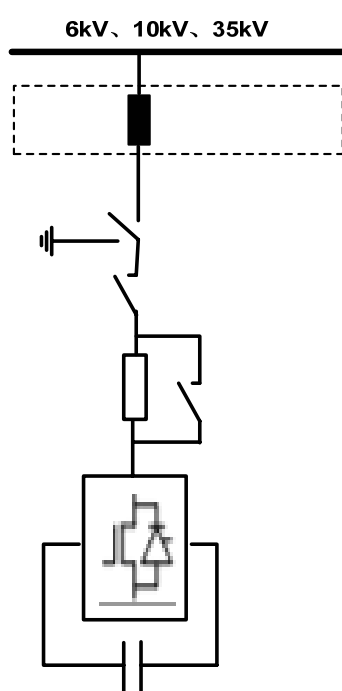


3

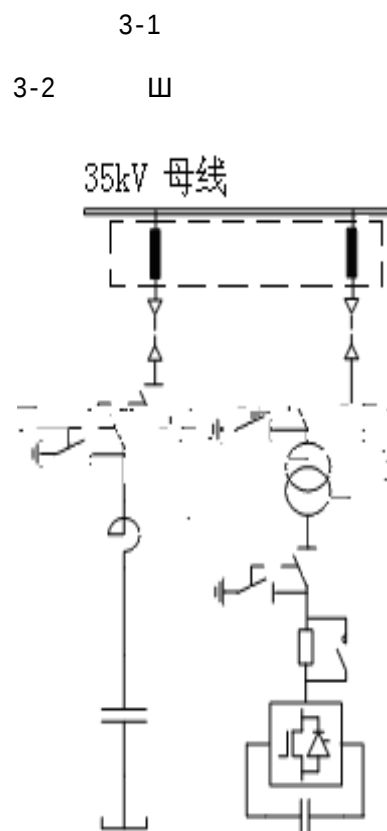
3.1

ZG-dSVG

Ш



3-1

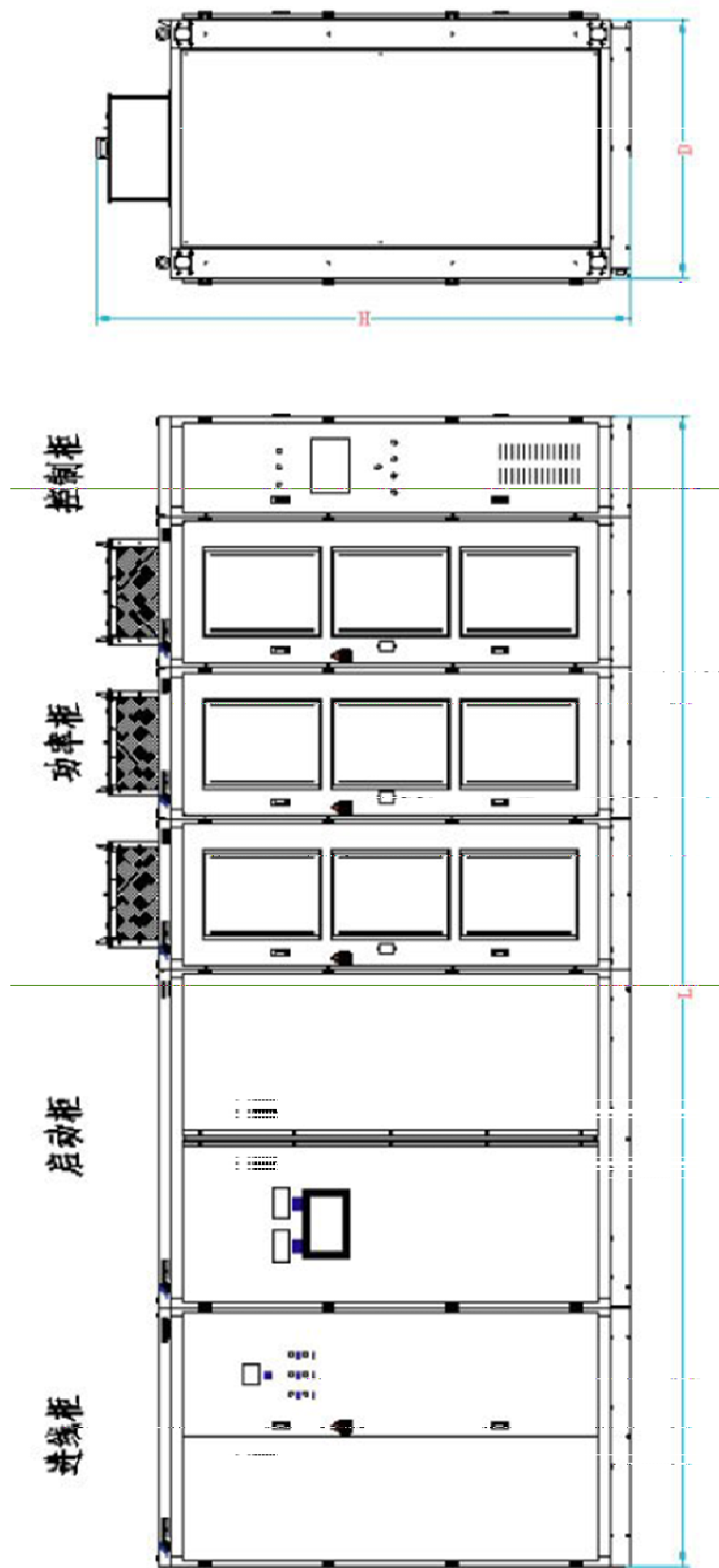


3-2

ZG-dSVG

3-3

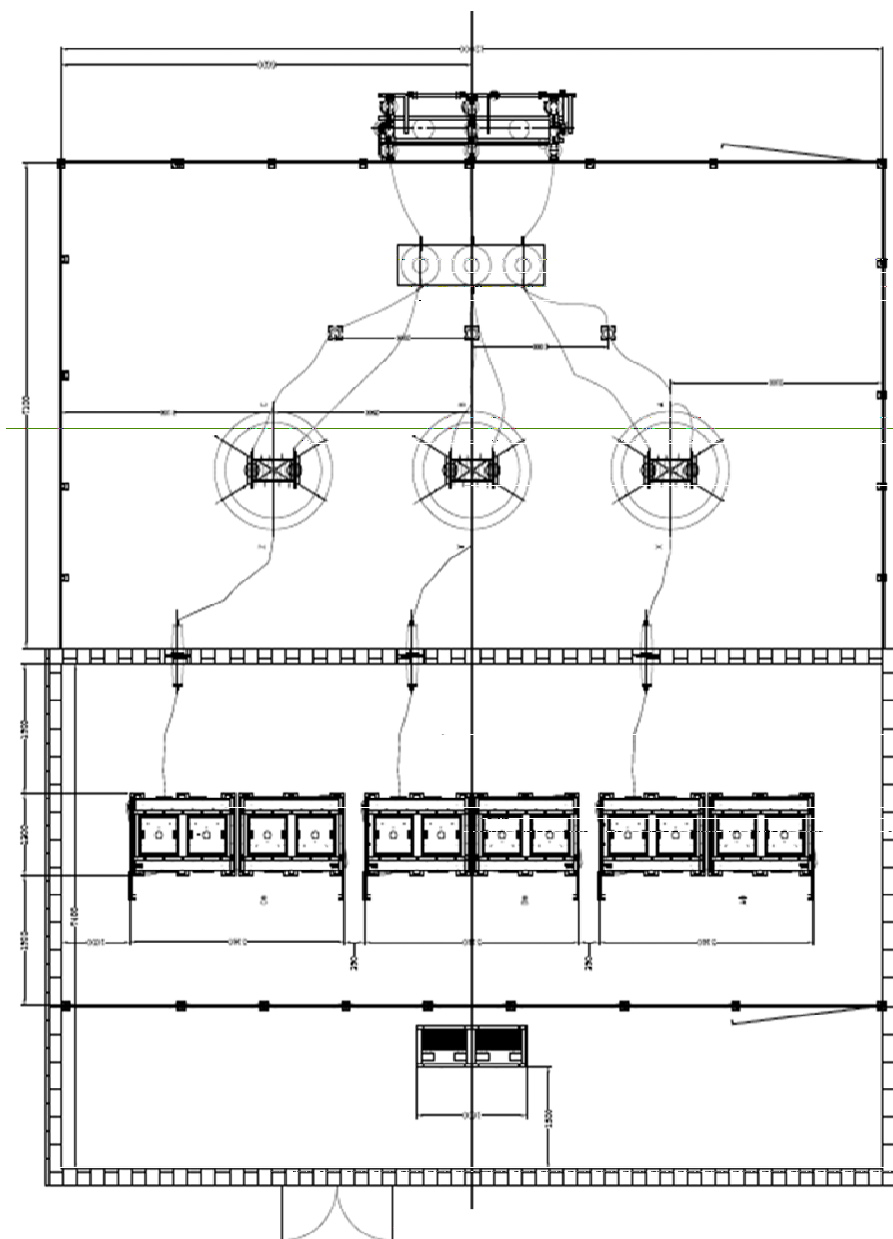
1	4	4	Ш
2	4	Ш	
3	4	Ш	
4	4 UPS 4	4	Ш



3-3 6kV 410kV ZG-dSVG

1	10kV	35kV	山
2			山
3	FC		山
4	FC		山
	35kV	ZG-dSVG	
3-4			

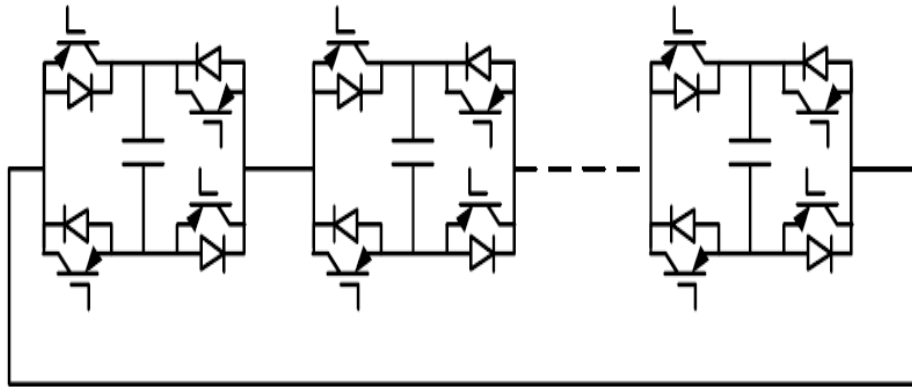
山



3-4 35kV ZG-dSVG

3.2

1



3-5

3-5

1. ZG-dSVG

2.

3.

IGBT

IGBT

Ш

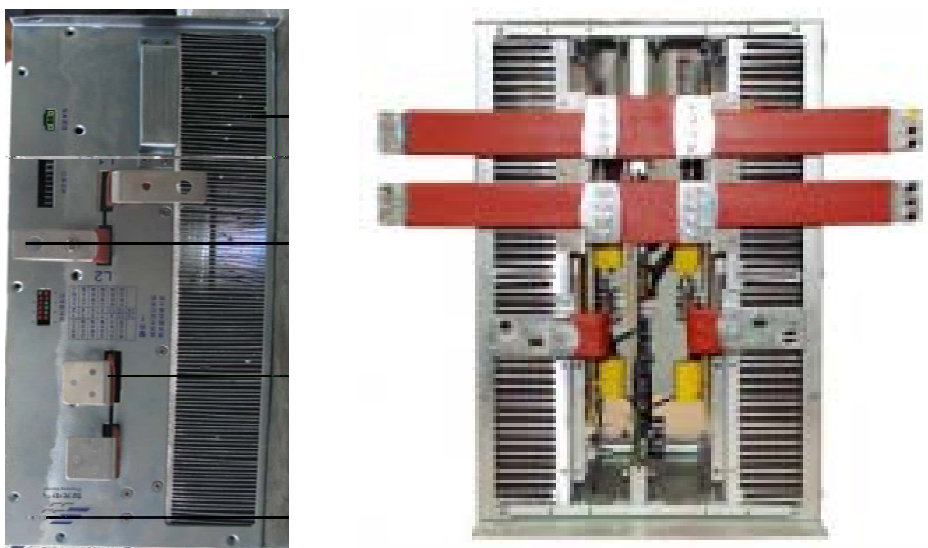
Ш

4

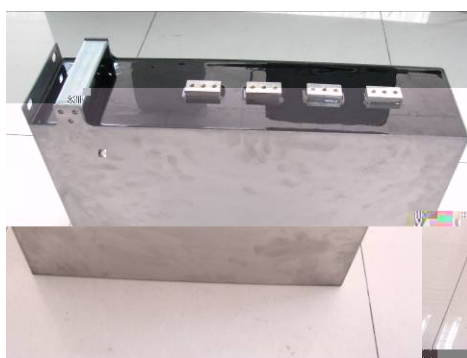
Ш

3-6

3-7



3-6



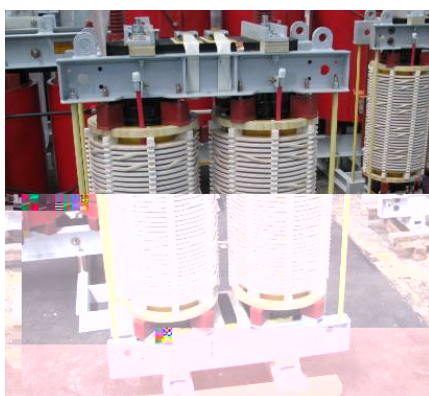
3-7

2

ZG-dSVG

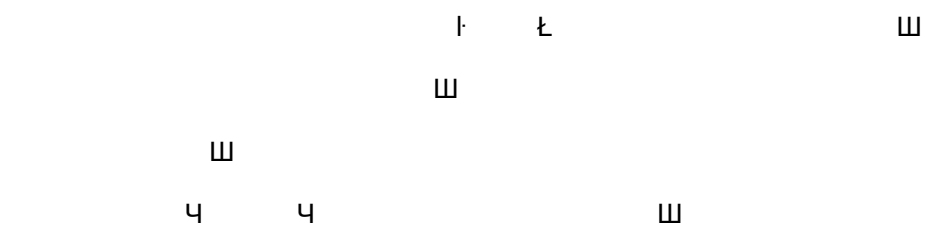
山

山



3-8

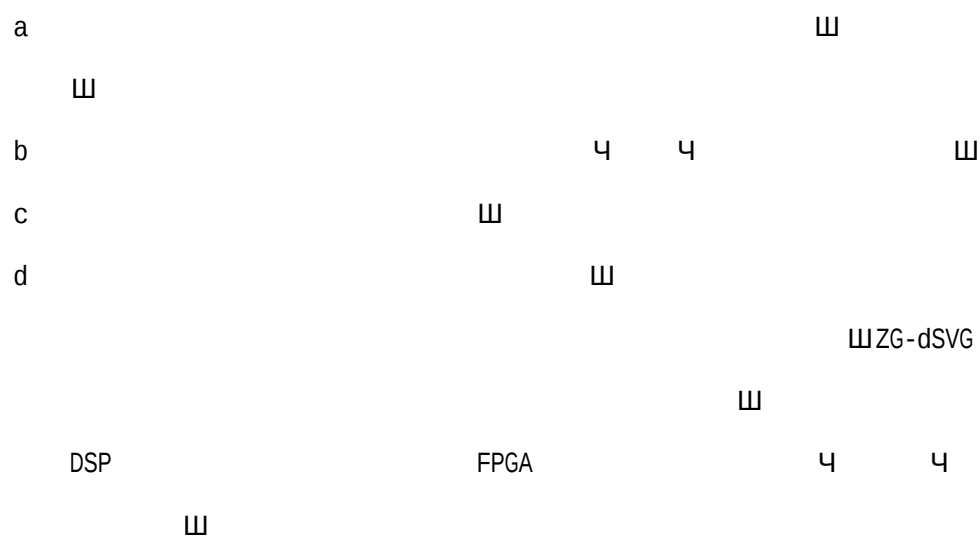
3



3-9



3-9



4

4

4

LLSVG

4

4

4

4

4

/

RS232/RS485

CAN

RJ45

Modbus 4

Profibus 4TCP/IP IEC61850

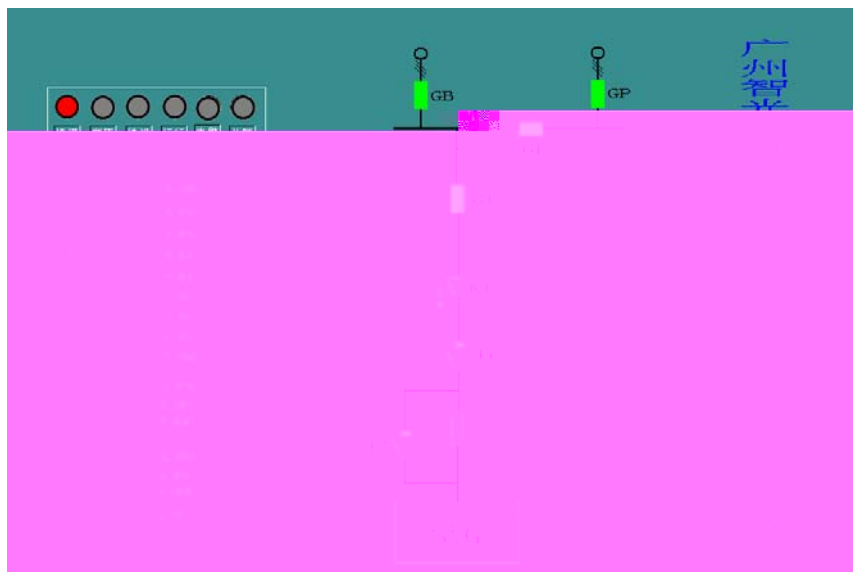
GPRS

4

GPRS

山

4



3-10

1

windows XP

2

4

4

4

4

4

4

4

3

4

4

1-25

4

6

5		Ш			Ч		Ч
			Ш				
6					Ш		
7						Ш	
8							Ш
					Ш		
9							Ш
		Ч			Ш		
10							
	Ш						
11			Ч				Ш

4

4.1

4

ш

1

		Ш
		Ш
		Ш
		Ш
		Ш
		Ш
	/	
		Ш
		Ш

4-1

ZG-dSVG

Ш

Ш

4.3

TPC7063H TPC7062K

RS485

Ш

Ш

Ш

5

Э Ю

Ш

Ш

5.1

1. 380V Ш
2. Ё / Ё Ш
3. Ш
- 4.
- Ш
5. Ё Ё Ш
6. Ё Ё Ш

5.2

1. 380V Ш
2. Ш
3. Ё Ё
- Ш
4. Ё Ё Ш
- 5.
- Ё Ё Ш

5.3

1. Ш

2. 380V

Ш

3.

Ш

4.

Ш

5.

Ш

6.

Ш

Ш

7.

Ш

5.4

1.

Ш

2.

Ш

3.

Ш

4.

3-6

Ш

5.

Ш

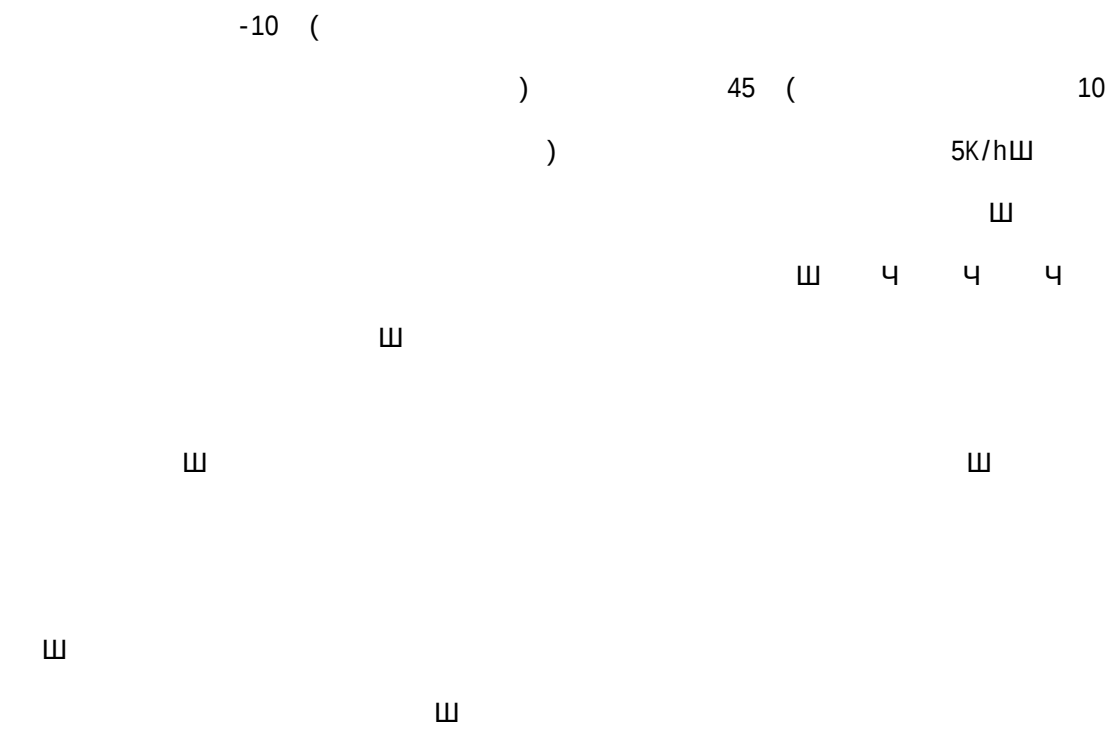
6.

Ш

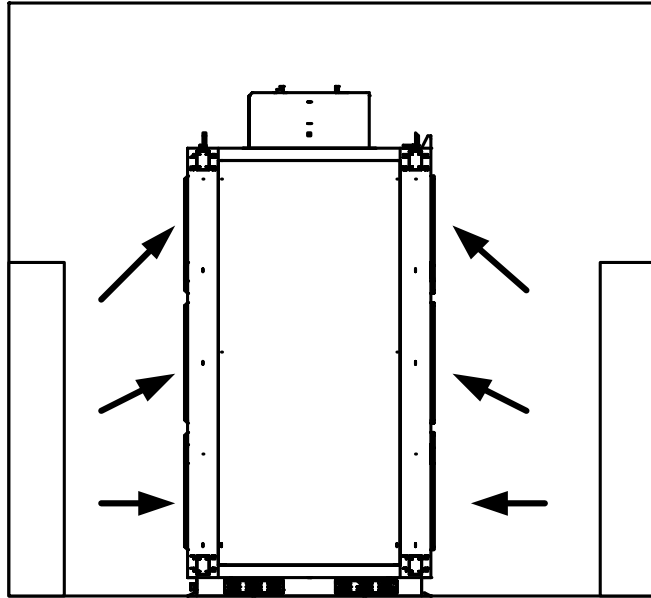
7.

Ш

6



6.1

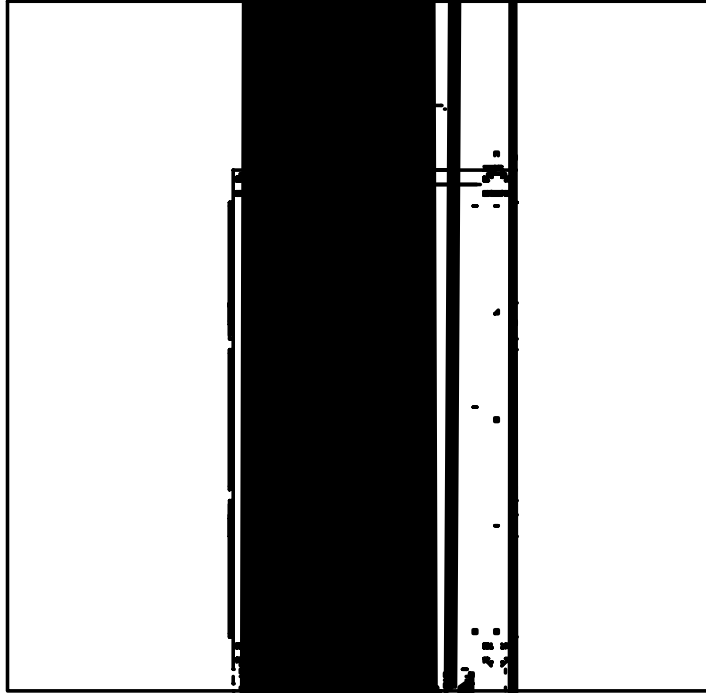


6-1

6.2

6.3

1



6-4

6.4

Ш

$$S = 3300 \text{ m}^3/\text{s} \times A_1 + 7100 \text{ m}^3/\text{s} \times A_2 \div V \quad 6-1$$

S m^2

A1 450 1.1 т

A2 560 1.1 т

V 2 м/с

Ш

Ч

Ш

ZG-dSVG

Ш

7-1

Ш

Ш

7-1 ZG-dSVG

1		1.IGBT 2. 3. 4. Ч 5.	1. 2. 3. 4.
2		1. 2. 3. 4.	1. 2. 3. 4.
3		1. Ч PT 2. 3. 4. 5. 6. 7.	1. Ч SVG PT Ш 2. 3. 4. 5. 6.
4		1. 2. 3. 4. 5.	1. Ш 2. 3. 4. 5.
5	/	1. 2. 3. 4. 5.	1. 2. 3. 4.
6		1.PT	1.

		2. 3.	2.
7	1/2	1. 2. 3. 4.	1. 2. 3. Ш
8		1. 2. 3. 4.	1. 2. 3. Ш
9		1. 2. 3. 4.	1. 2. 3. Ш
10		1. 2. 3.	1. 2.
11		1. 2.	1. 2.
12		1. 2. 3. 4.	1. 2. 3.
13		1. UPS 2. 3. 4.	1. UPS 2. 3. 4.
14			1. 2.
15		1. 2. 3. PT 4.	1. 2. 3. Ч SVG Ш PT
16	/ /	1. 2. 3.	1. 2. 3.
17		1. 2. $\pm 15V$ 3. 4.	1. 2. $\pm 15V$ 3. 4.

7-2

W

7-2 ZG-dSVG

1		ᐃ ᓄ
2		ᓂ
3	/	ᐃ / ᓄ
4		
5	/	ᐃ / ᓄ
6		ᐃ ᓄ
7	/	ᐃ / ᓄ

W

W

8

Ш

8.1

Ш

Ш

8.2

	Ш			
2				Ш
3			Ш	
4		Ш		
5		Ш		

8.5

4	Ш
	Ш