



ZG-dSVG



V1.2

ZG-dSVG

W

ZG-dSVG

4

4

4

4

W

4

W

4

4

W

1.

4

4

⌊

W

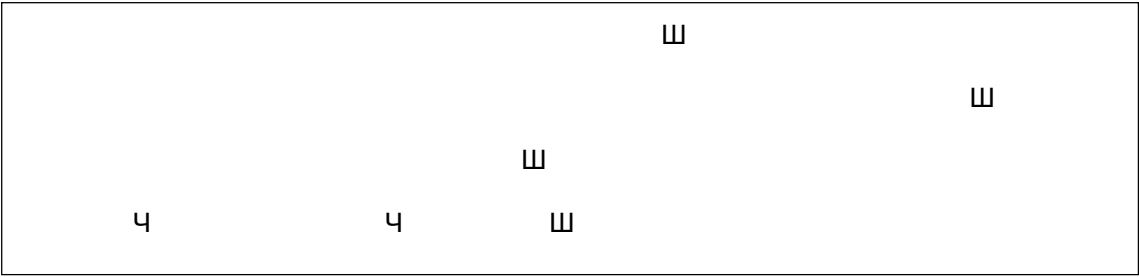
1.

⌊

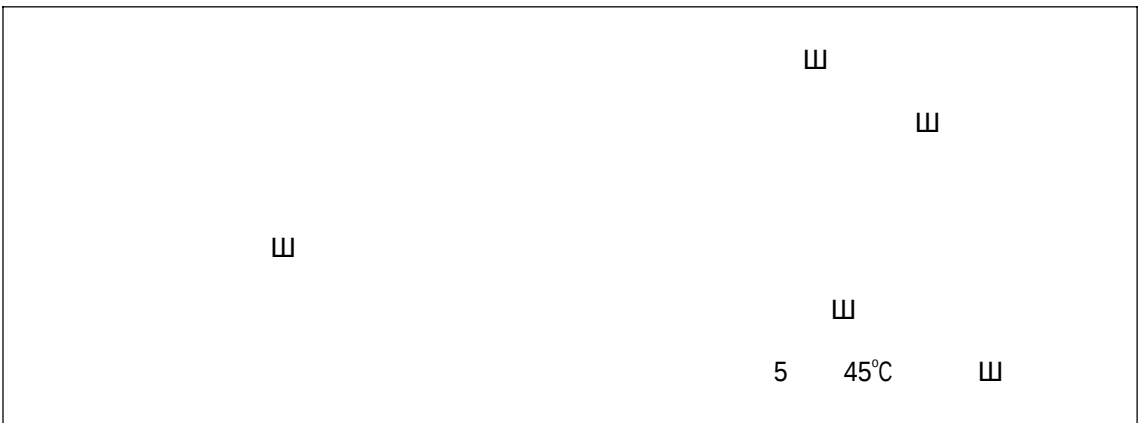
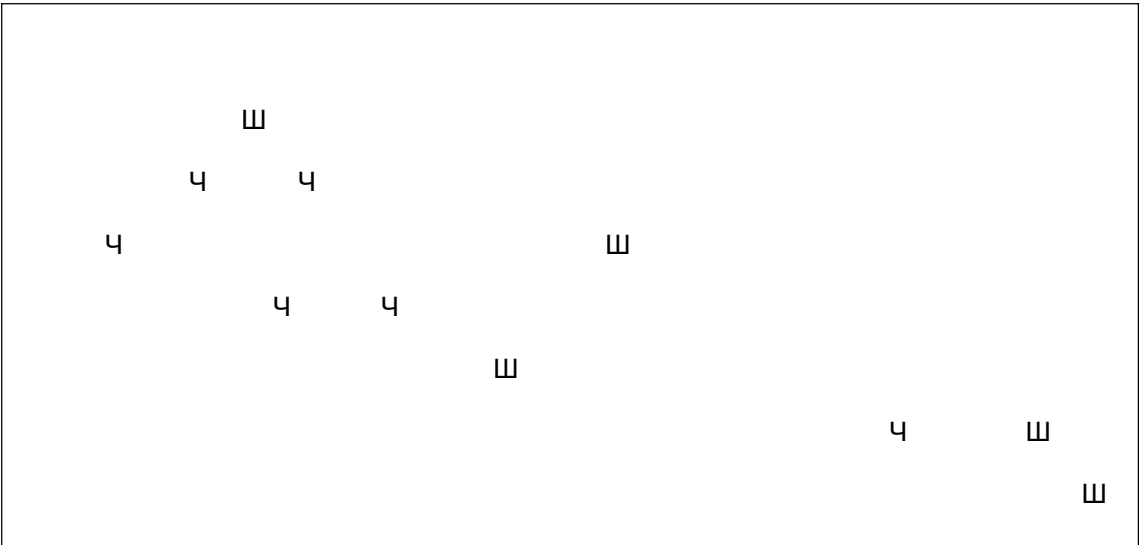
ZG-dSVG

Ö

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



1.1.4



1.1.5



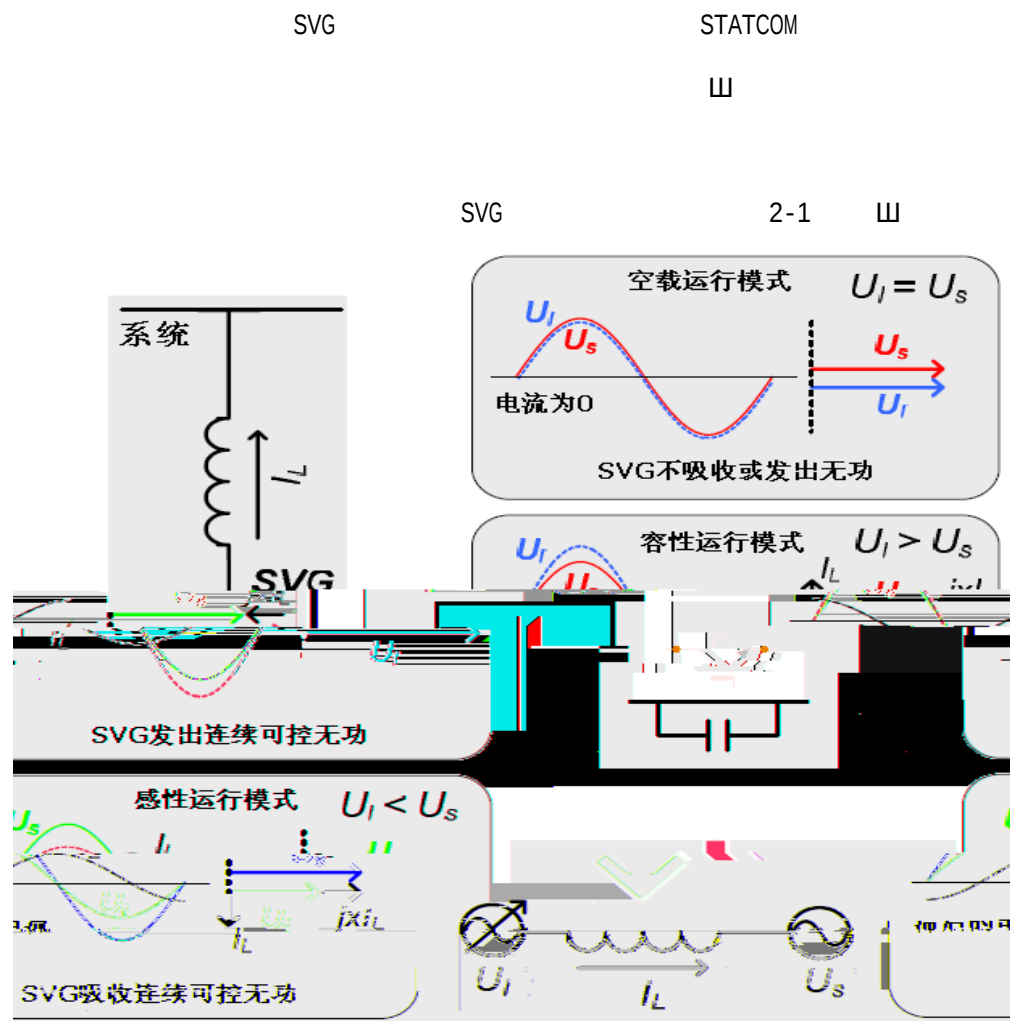


W

2

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

2.3



2-1SVG

2-1

山

$$I_1 \quad (U_s \quad U_1) \quad jX_L$$

2-1

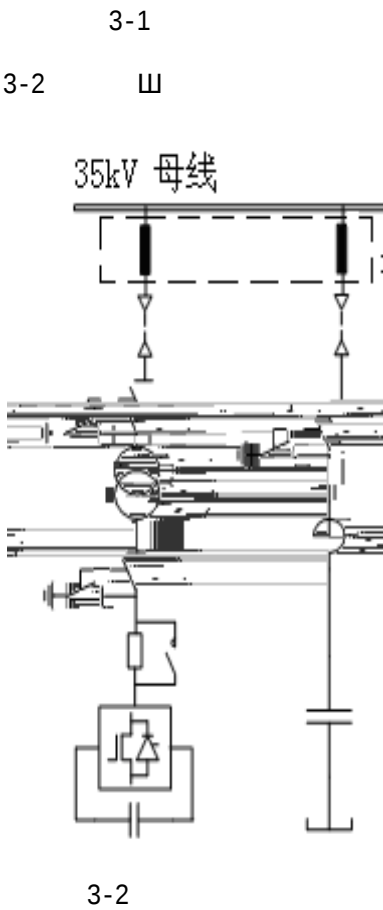
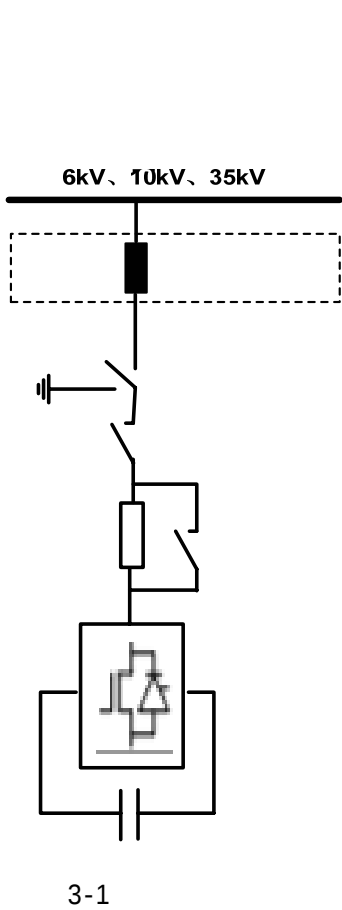
2.4

3

3.1

ZG-dSVG

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ZG-dSVG

3-3

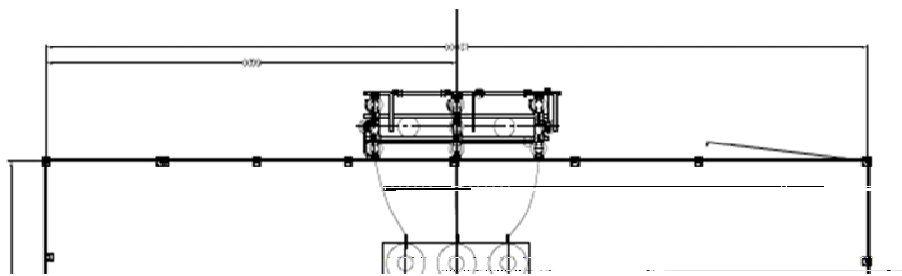
1	4	4	Ш
2	4	Ш	
3	4	Ш	
4	4 UPS 4	4	Ш



1100 1100

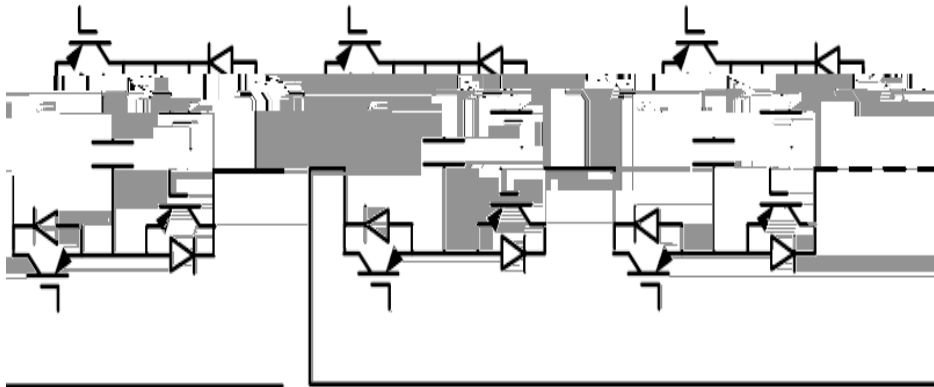
1100 1100

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



3.2

1



3-5

3-5

1. ZG-dSVG

2.

3.

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IGBT

IGBT

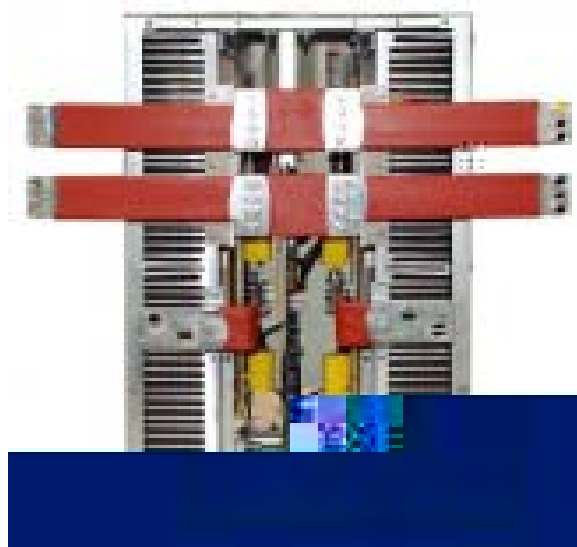
Ш

4

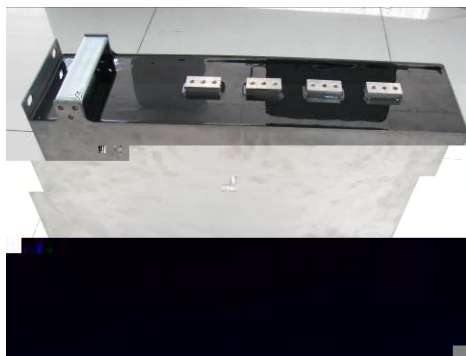
Ш

3-6

3-7



3-6

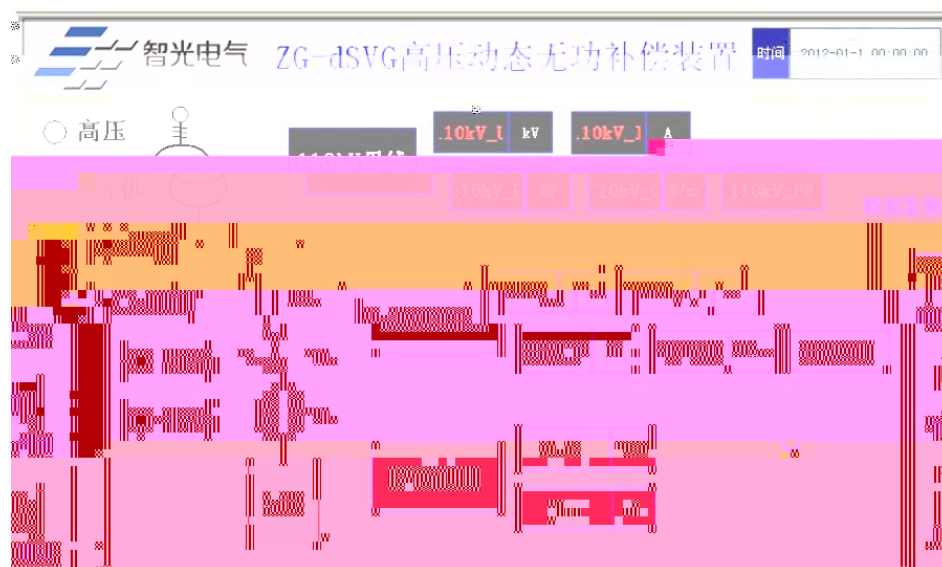


3-7

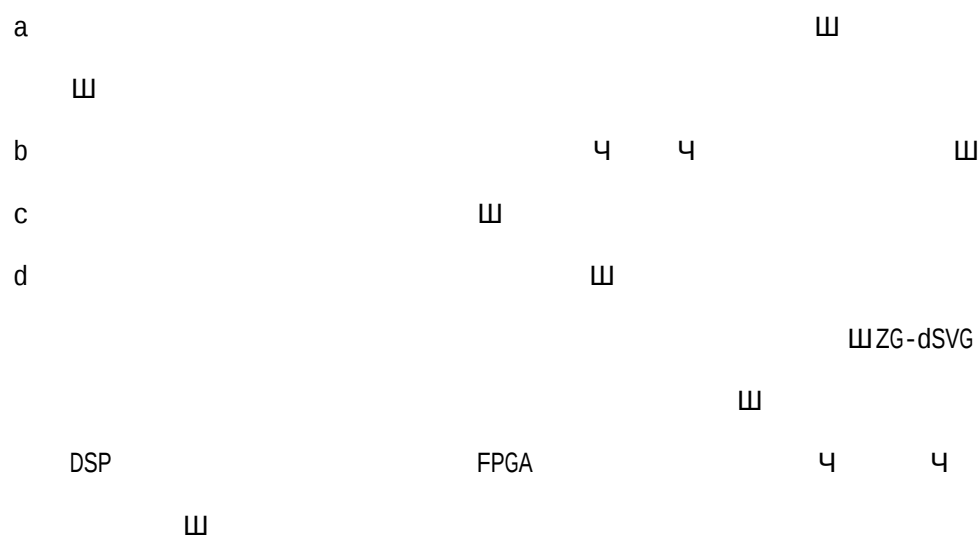
3



3-9



3-9



4

4

4

LLSVG

4

4

4

4

4

/

RS232/RS485

CAN

RJ45

Modbus 4

Profibus 4TCP/IP IEC61850

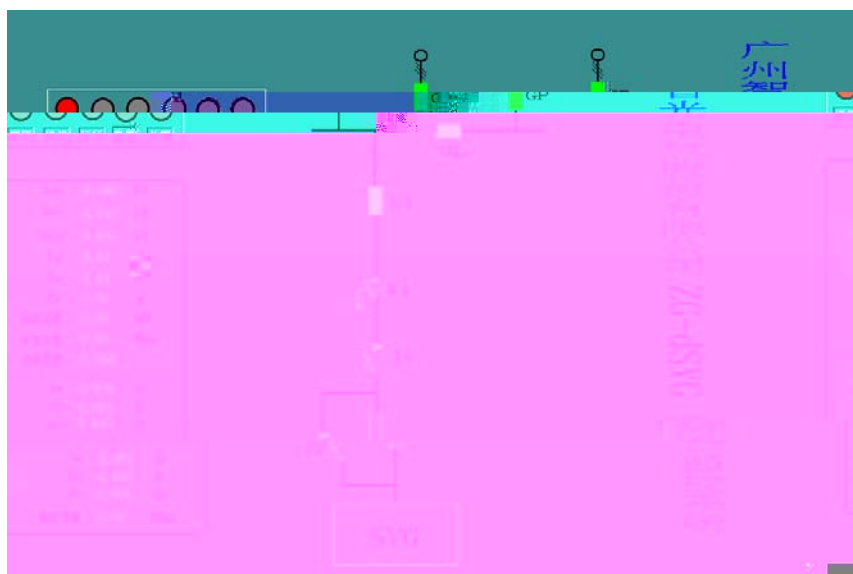
GPRS

4

GPRS

W

4



3-10

1

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

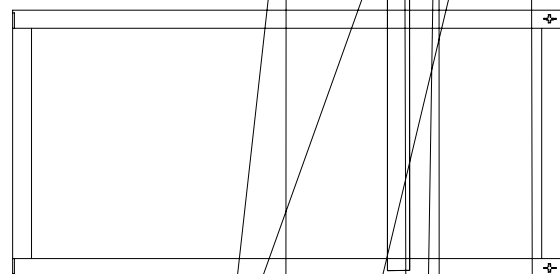
4

4.1

4

ш

1



		W
		W
		W
		W
		W
		W
	/	
		W
		W

4-1

ZG-dSVG

W

W

4.3

TPC7063H TPC7062K

RS485

W

W

W

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.

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4.

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5.

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6.

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7.

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5.4

1.

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2.

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4.

3-6

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6.

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6

-10 () 45 (10
) 5K/h

Ш

Ш 4 4 4

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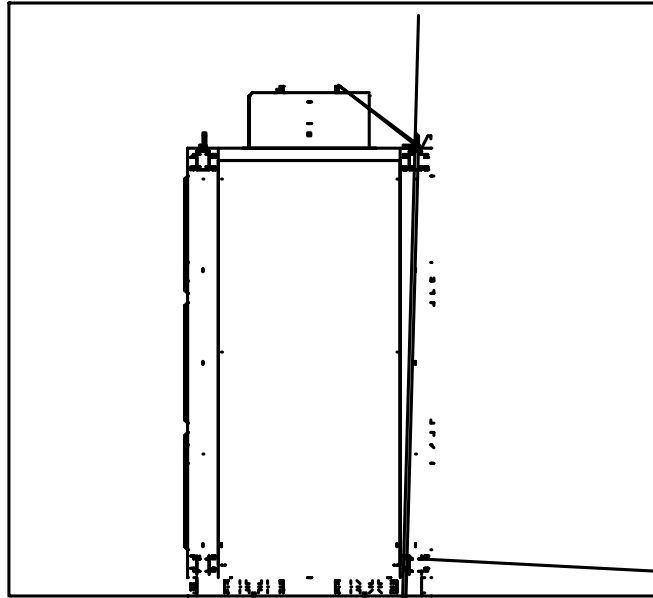
Ш

Ш

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6.1

Ш



6.3

1

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

7

		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.

8

Ш

8.1

Ш

Ш

8.2

	Ш			
2				Ш
3			Ш	
4		Ш		
5		Ш		

8.5

4	Ш
	Ш