

ZG-dSVG



V1.2

2014 01

ZG-dSVG

ZG-dSVG

ZG-dSVG

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

ZG-dSVG

1.1

1.1.1

¥
¥

1.1.2

¥
¥

¥
¥
¥
¥
¥

1.1.3

¥
¥

¥
¥
¥
¥

1. 1. 4

¥
¥
¥
¥
¥

¥
¥
¥
¥
¥ 5 45°C

1. 1. 5

¥
¥ 30
¥

¥

¥
¥
¥

1. 1. 6

¥

1. 1. 7

¥ ZG-dSVG

ZG-dSVG

2

2.1

1)

-15 45 , 5K/h

2)

90%(20) 5%/h,

3)

,

4)

1000m 1000m

5)

: 2Hz 9Hz <0.3mm

9Hz 200Hz,

5m/s²

6)

a -20% +15%

b 20kVA

2.1

2.2

1 6kV 10kV 35kV

2 1—20 MVar

3

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

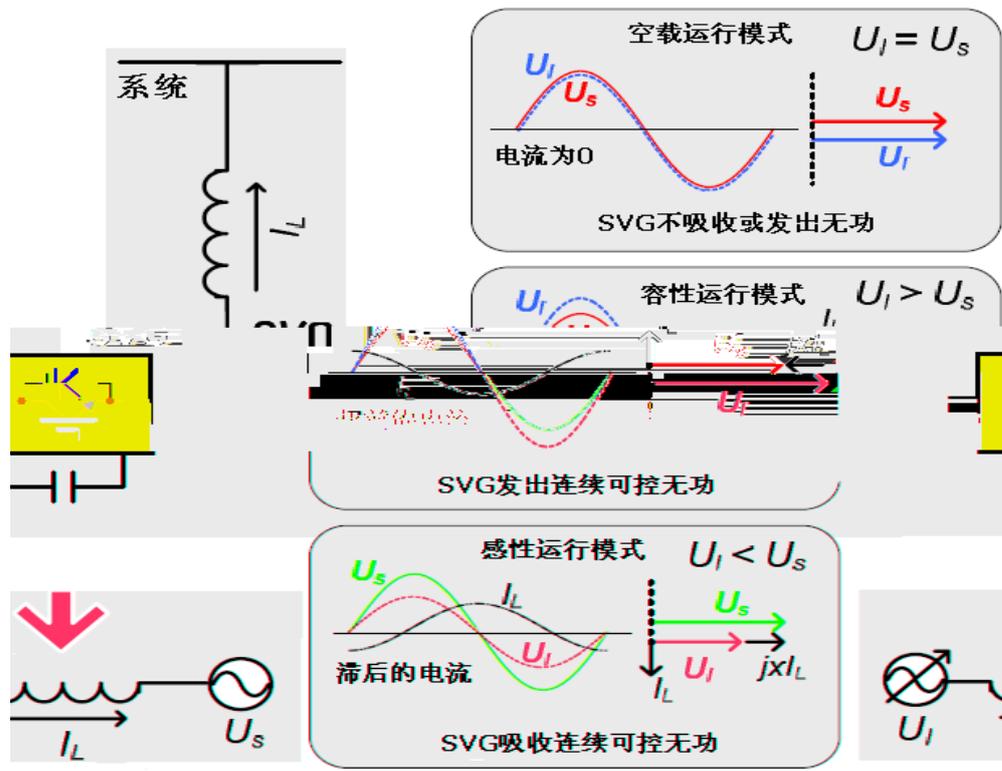
2.3

SVG

STATCOM

SVG

2-1



2-1SVG

2-1

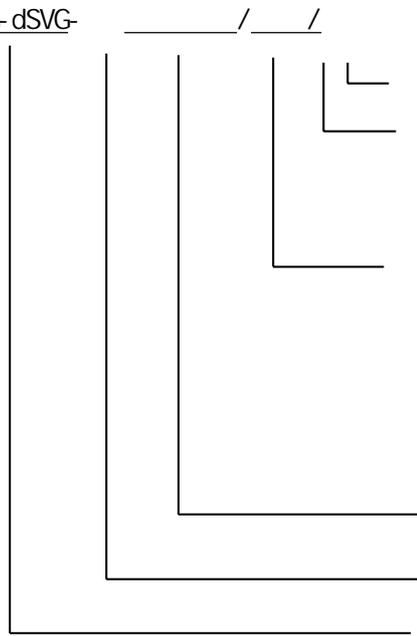
$$I_1 = (U_s - U_1) \div jX_L$$

2-1

2.4

ZG-dSVG

ZG-dSVG-



A-Z 0-9
 " Y" " "
 " W"
 03 3kV
 06 6kV
 10 10kV
 35 35kV
 kVar
 n H n H

10kV

± 2000kvar

12 H

" "

A10

ZG-dSVG-12H 2000/10Y/A10

ZG-dSVG

10kV

600A

600A

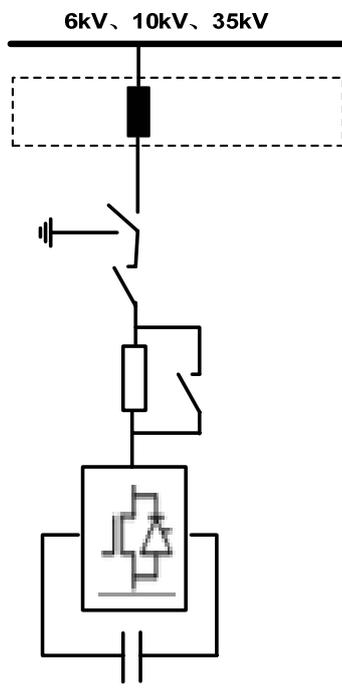
35kV

ZG-dSVG

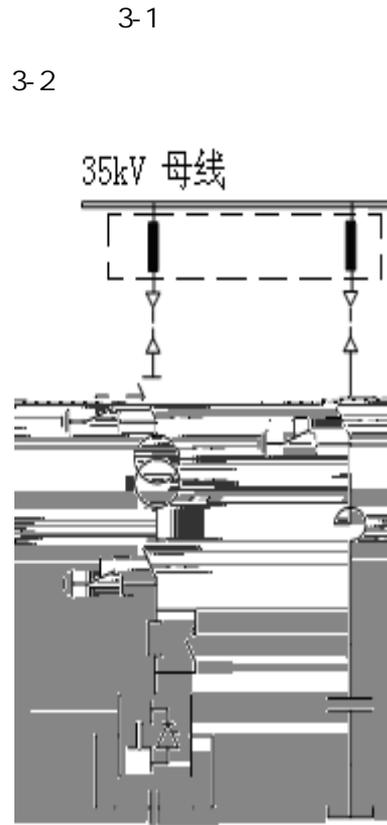
3

3.1

ZG-dSVG



3-1



3-2

3-1

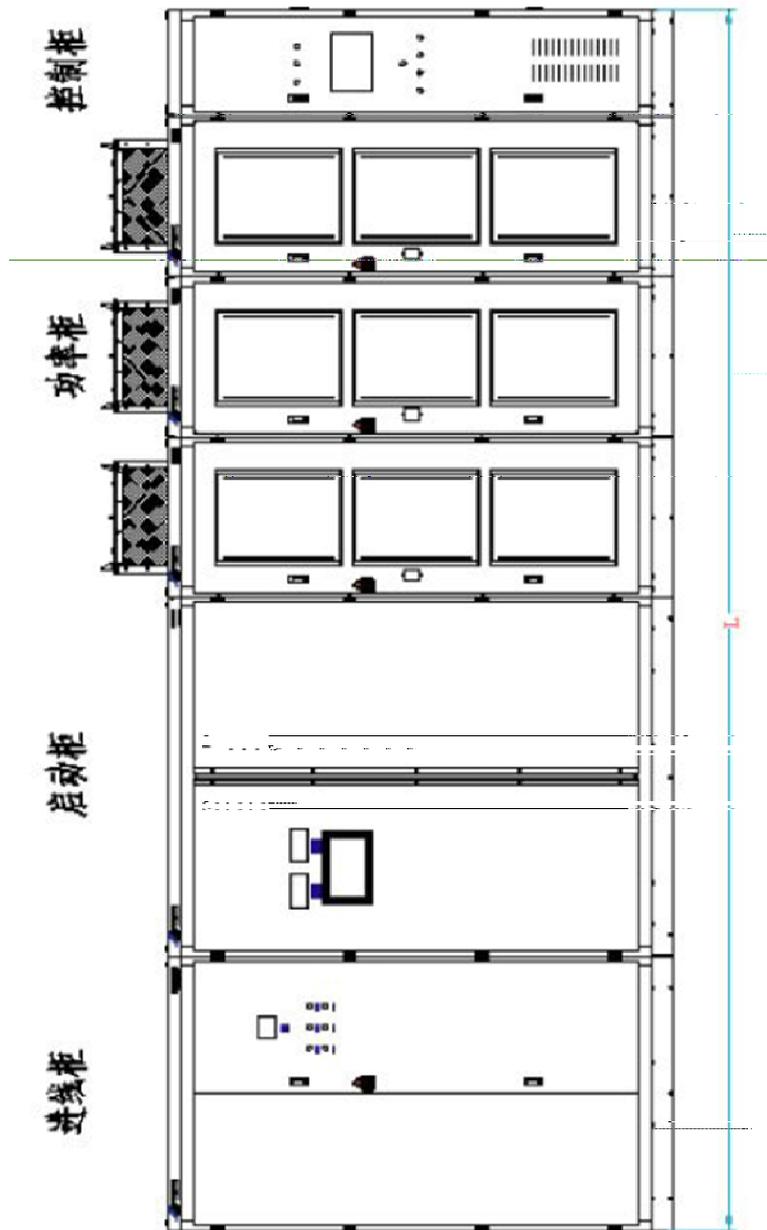
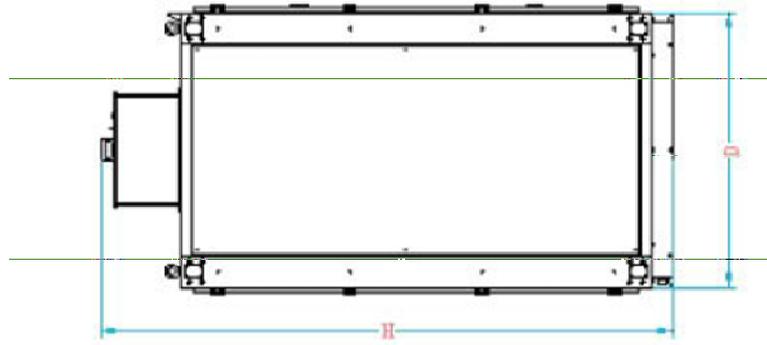
3-2

3-3

ZG-dSVG

- 1
- 2
- 3
- 4

UPS



3-3 6kV 10kV ZG-dSVG

1 10kV 35kV

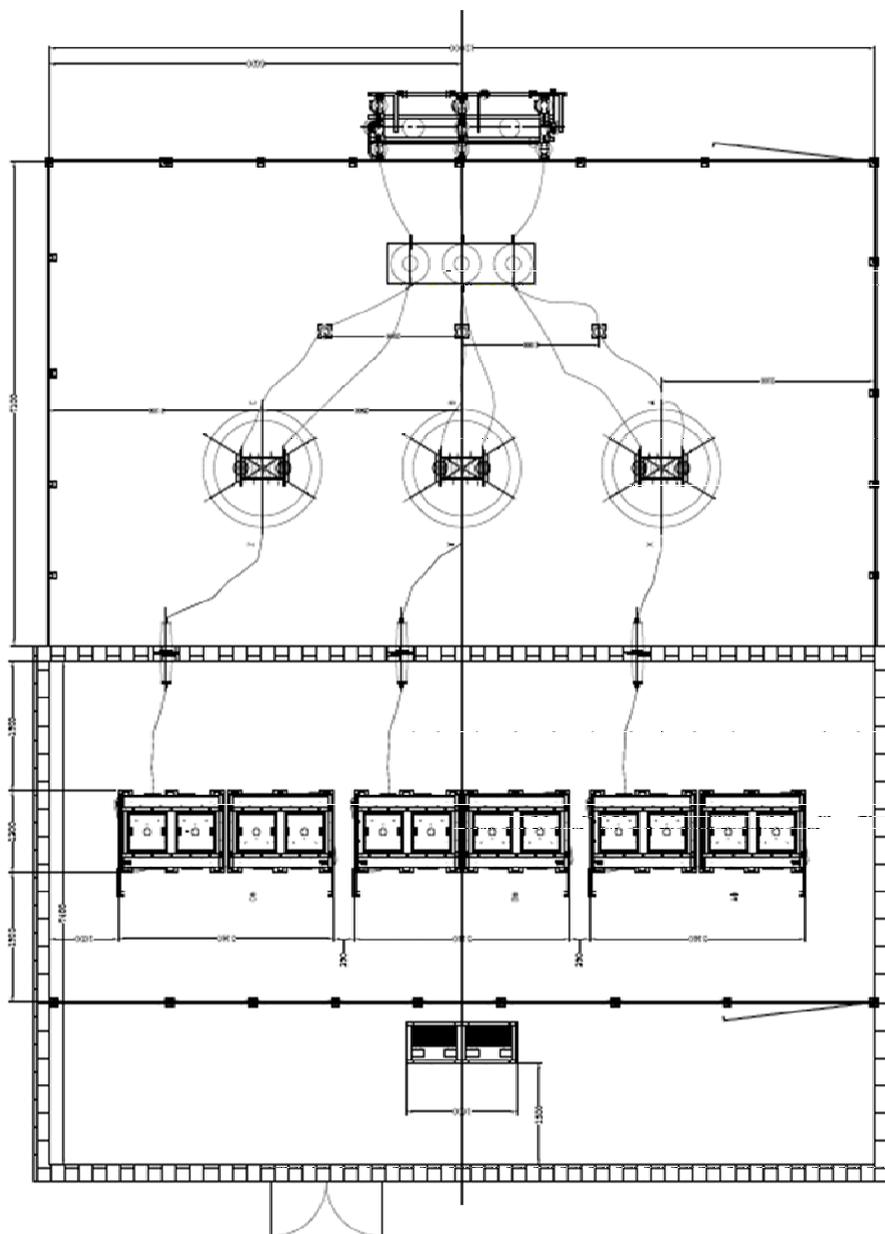
2

3 FC

4 FC

35kV ZG-dSVG

3-4

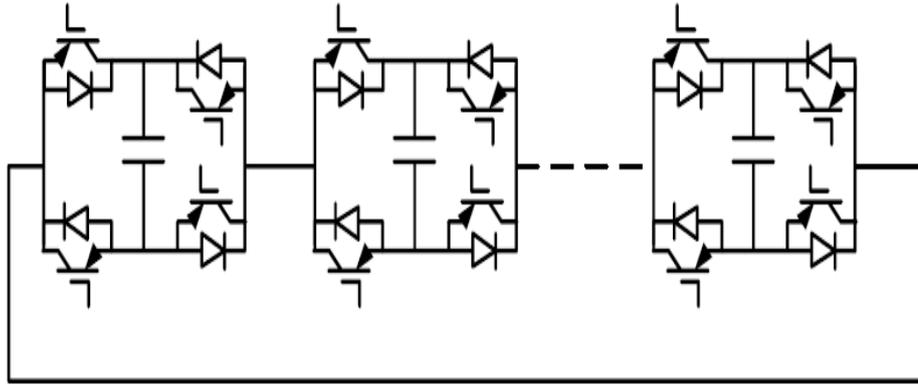


3-4 35kV

ZG-dSVG

3.2

1



3-5

3-5

1. ZG-dSVG

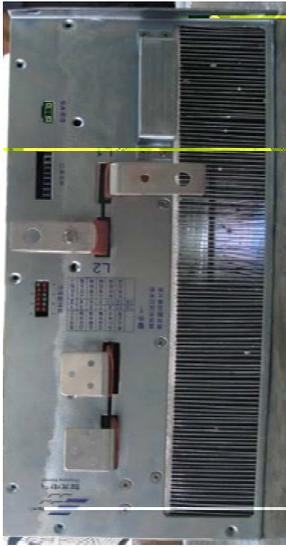
2.

3.

IGBT

IGBT

3-6 3-7



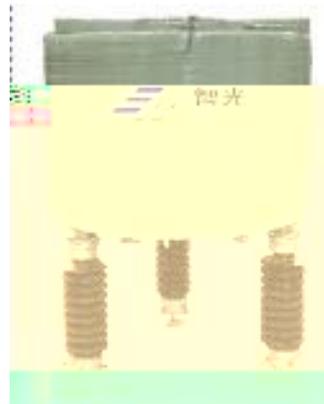
3-6



3-7

2

ZG-dSVG

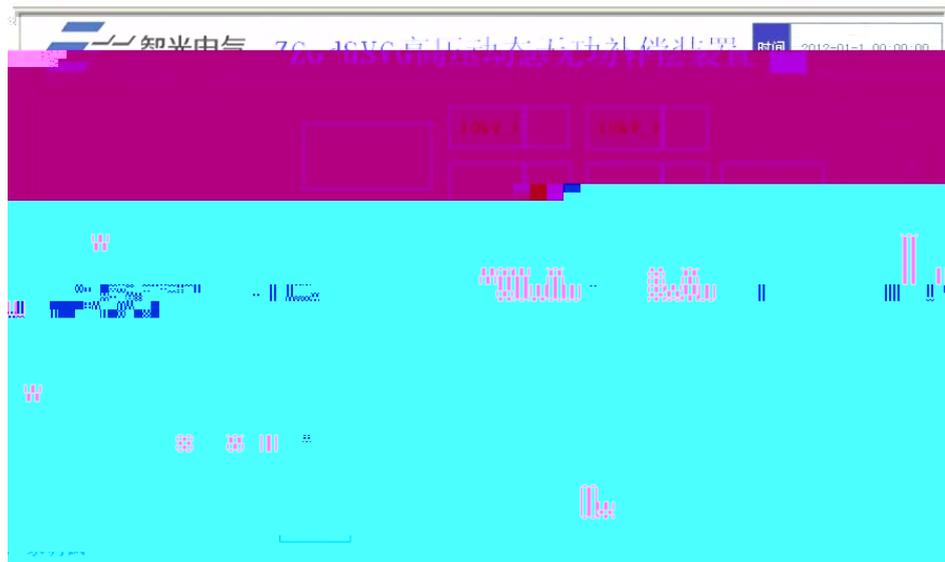


3-8

3

“ ”

3-9



3-9

a

b

c

d

ZG-dSVG

SVG

/

RS232/RS485

CAN

RJ45

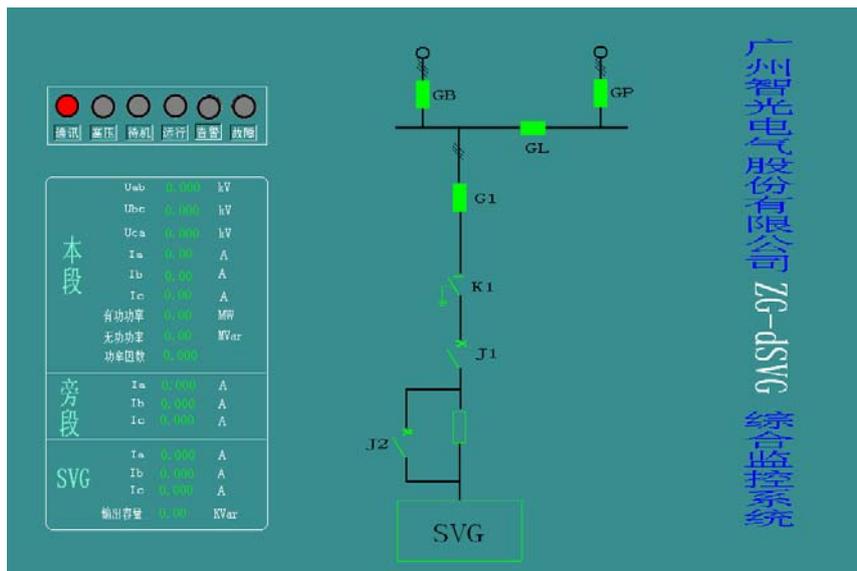
Modbus

Profibus TCP/IP IEC61850

GPRS

GPRS

4



3-10

1

windows XP

2

3

1-25

4

6

5

6

7

8

9

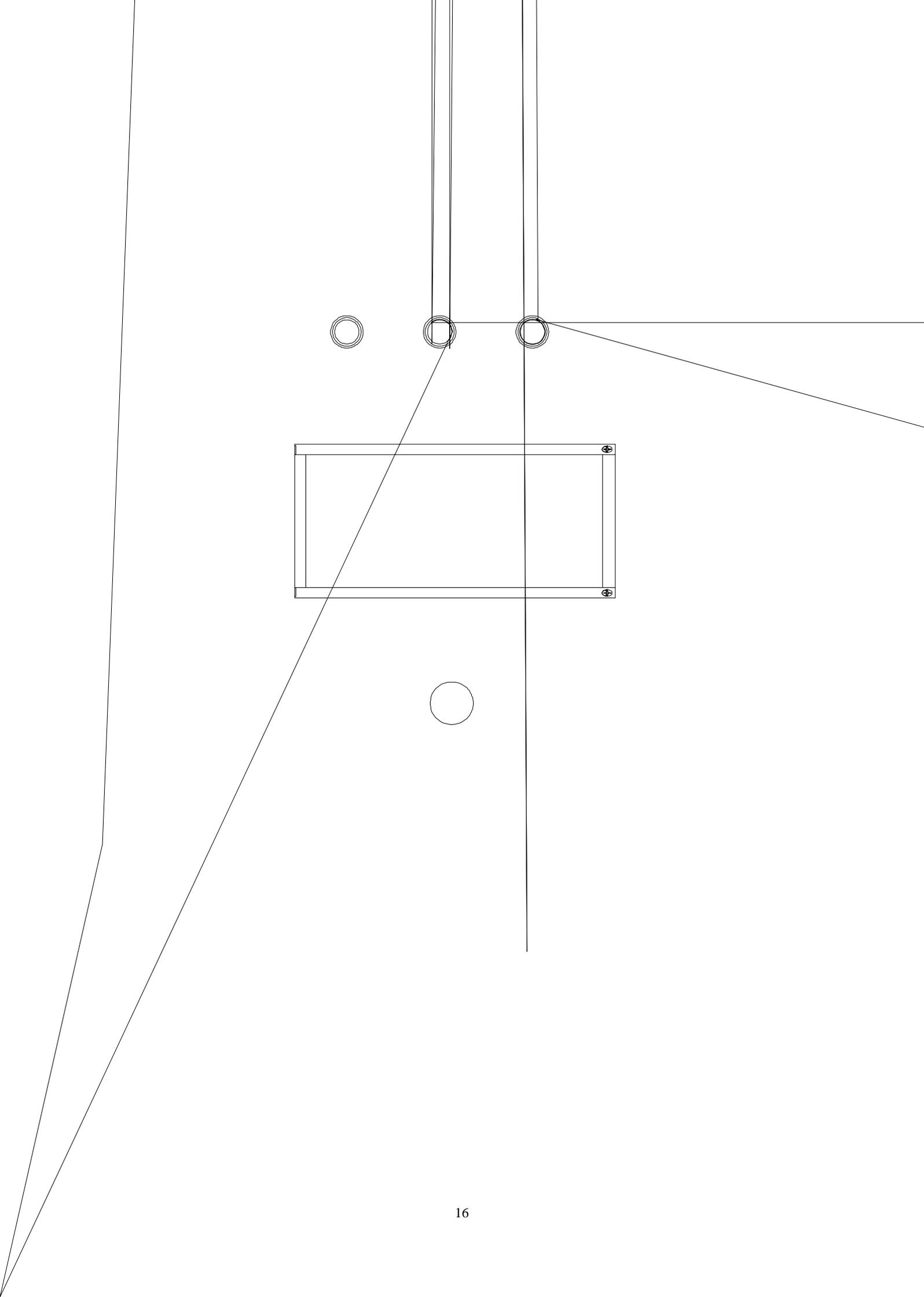
10

11

4

4.1

1



	/	

4-1

ZG-dSVG

4.3

TPC7063H

TPC7062K

RS485

1

2

1.

" "

2

" " " 900970"

3

" "

4.

" "

ZG-dSVG

5

5.1

1. 380V
2. " / "
- 3.
- 4.
5. " "
6. " "

5.2

1. 380V
- 2.
3. " "
4. " "
5. " "

5.3

- 1.

2.

380V

3.

4.

5.

6.

7.

5.4

1.

2.

3.

4.

3-6

5.

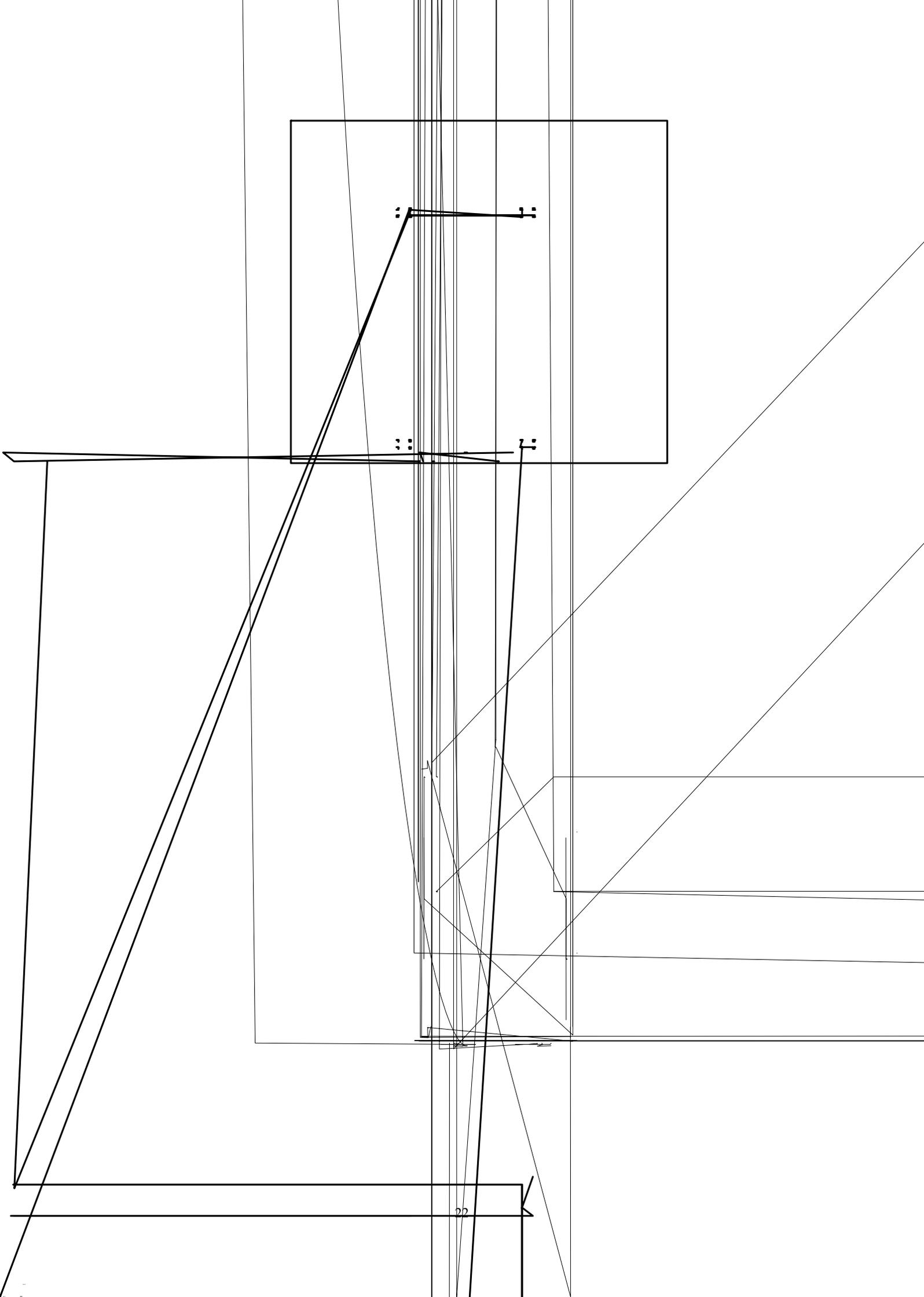
6.

7.

6

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

6.1

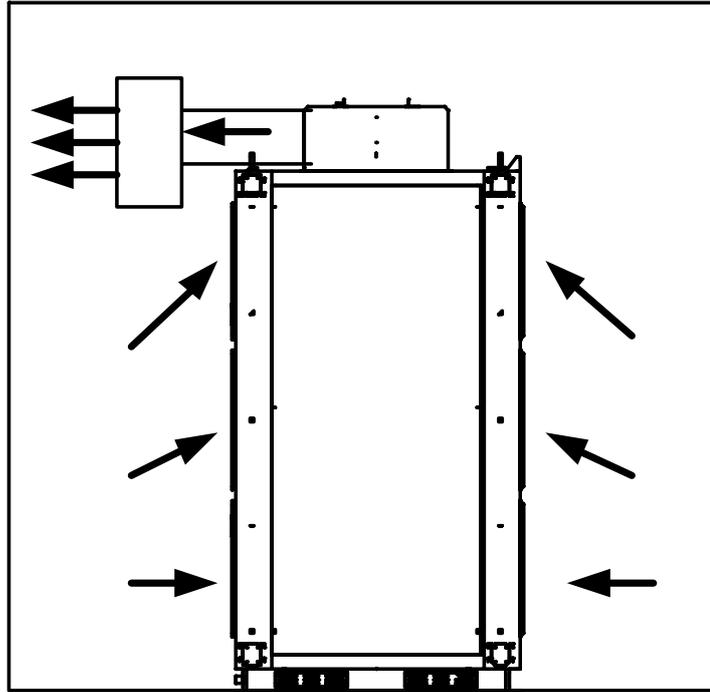


1-1

2-2

6.3

1



6-3

2

1

6.4

$$S = 3300 \text{ m}^3/\text{s} \times A1 + 7100 \text{ m}^3/\text{s} \times A2 \div V \quad 6-1$$

S		m ²
A1	450	" 1"
A2	560	" 1"
V		2m/s

7

ZG-dSVG

7-1

7-1 ZG-dSVG

1		1.IGBT 2. 3. 4. 5.	1. 2. 3. 4.
2		1. 2. 3. 4.	1. 2. 3. 4.
3		1. PT 2. 3. 4. 5. 6. 7.	1. SVG PT 2. 3. 4. 5. 6.
4		1. 2. 3. 4. 5.	1. 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.
8		1. 2. 3. 4.	1. 2. 3.
9		1. 2. 3. 4.	1. 2. 3.
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. PT SVG 4. PT
16	/ /	1. 2. 3.	1. 2. 3.
17		1. 2. ± 15V 3. 4.	1. ± 15V 2. 3. 4.

7-2

7-2 ZG-dSVG

1		" "
2		
3	/	" / "
4		
5	/	" / "
6		" "
7	/	" / "

8

8.1

8.2

1

"

2

3

4

5

8.5