智光电气
Zhiguang Electric

# ZG-dSVG

V1.2

2014 01

Ѧ ″I Ѧ ZG-dSVG ╠ ╥ Â

″I Ѧ Ҙ ZG-dSVG ╠ ╥

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à ˘ ˩ ᾱ Â

″I Ѧ a ╡ ˘ ˘ ˘ ╗

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ZG-dSVG ╠ ╥ ″I Ѧ ж

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

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1.1.5

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# 2

4˜ ' <5ms'

5˜ ل ' <3%'

6˜ ' SVG >99%'

7˜ ' <1000㎡'

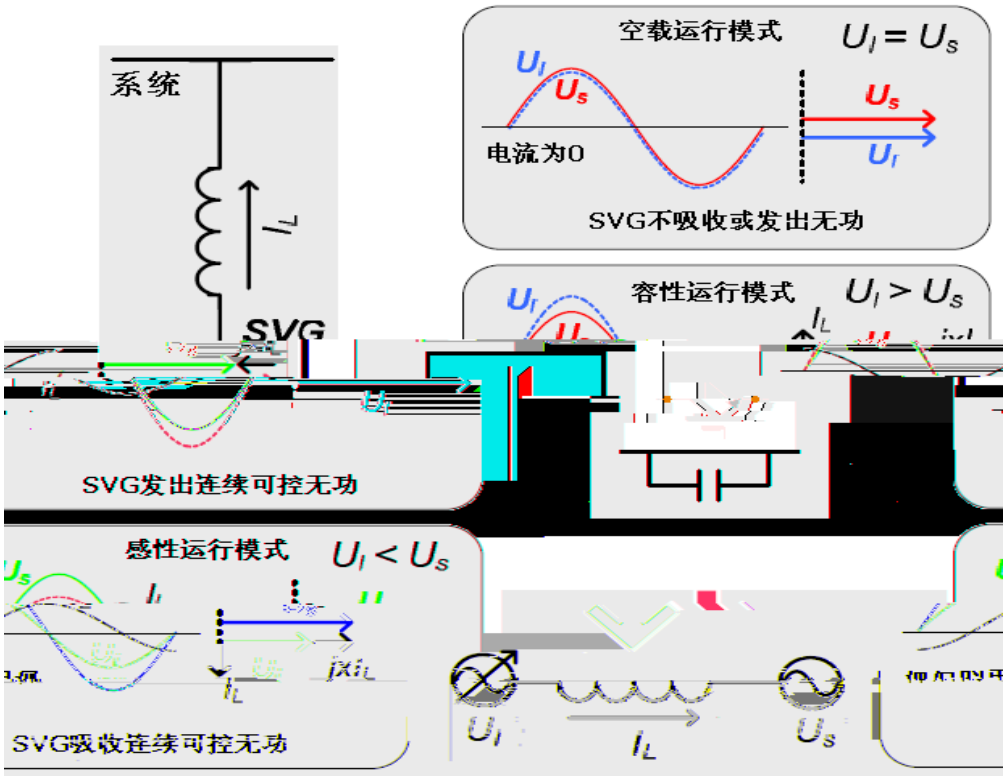
## 2.3

ٿ ^ SVG˜ ≠ ﻯ ل ^ STATCOM˜˜

ﻩ ˘ ≠ ɑ Âў ﻯ ل

˘ a Ѧ ˘ ل

˘ ٿ ˘ SVG ﷺ في 2-1 Â




في 2-1SVG في

Э˘ è ل ^ 2-1˜

Э˘ Æ ˘ è ˘ ل Л

ŭ ٿ ˘ ╟ ٿ Â

$I_1 \quad (U_S \quad U_1) \quad jX_L$ ^ 2-1˜

## 2.4

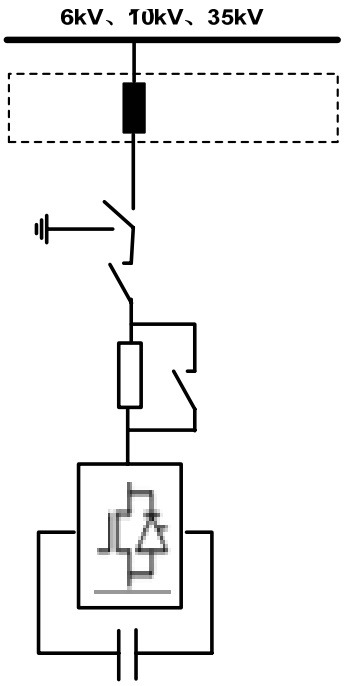
# 3 б

## 3.1

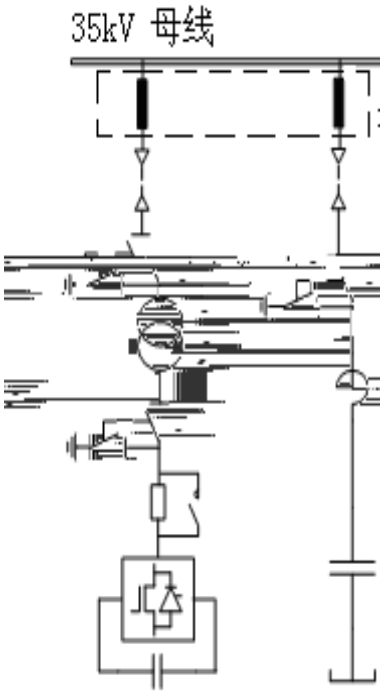
˘ ZG-dSVG ╟ ╖ ŕ й Â

б ˘ è في 3-1 ˘

↓ б ˘ è في 3-2 Â




في 3-1




في 3-2

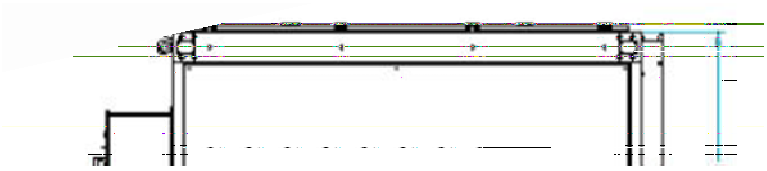
ZG-dSVG ╟ ╖ ŕ ŕ й ŕ ˘ في 3-3 ˘ ŕ '

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2˜ ╟ à Â

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4˜ ў à UPS à à ╟ Â



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2˜ ˘ ѝ Â

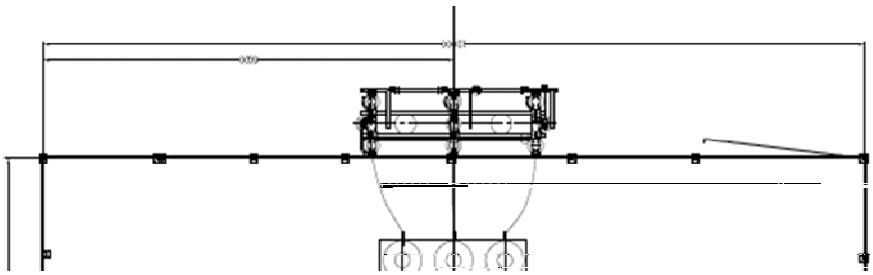
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4˜ FC ⅂ ⅂ ˘ ŭ Â

35kV ZG-dSVG ˘ ѝ ˘

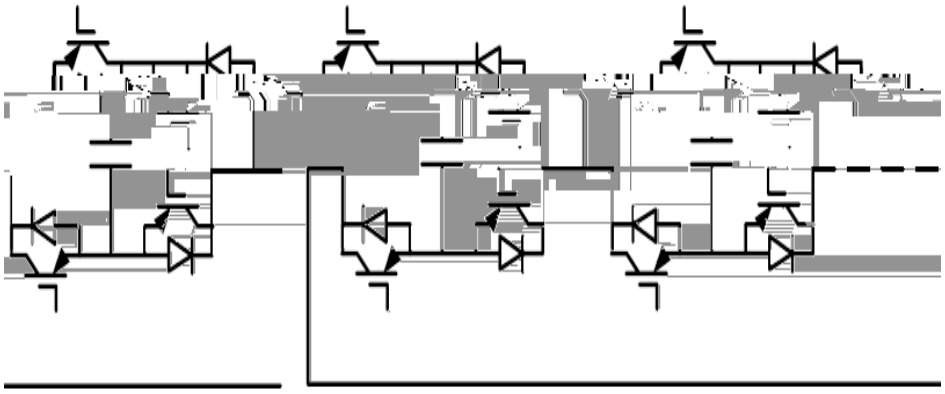
في 3-4 ˘ ѝ ˘ ⅂ ⅃ ˘

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## 3.2

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≠ ѝ ˘ في3-5 ˘ ⅄ ╖ ˘ è

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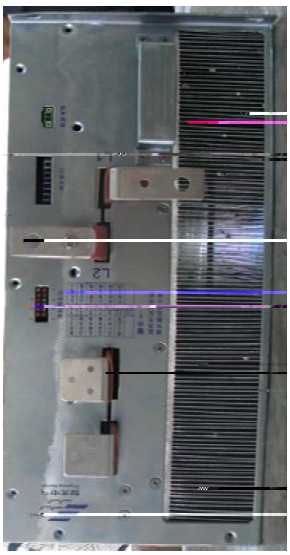
1. ZG-dSVG ў ˘ Л∪ ╖ ⅄ '
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3. ˘ Ы ˘ ⅄Л∪ Â

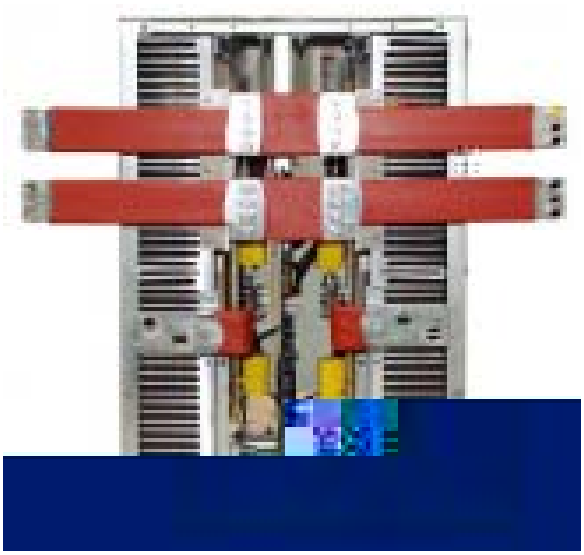
ѝ IGBT ˘ Ű ˘ IGBT ж ╟ Â

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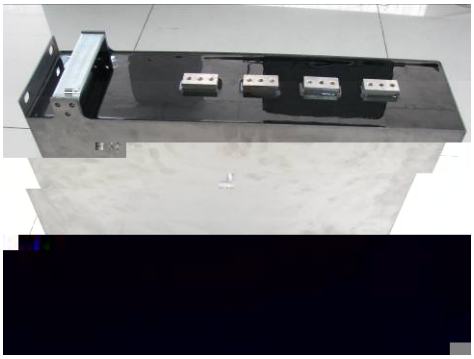
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3-7في

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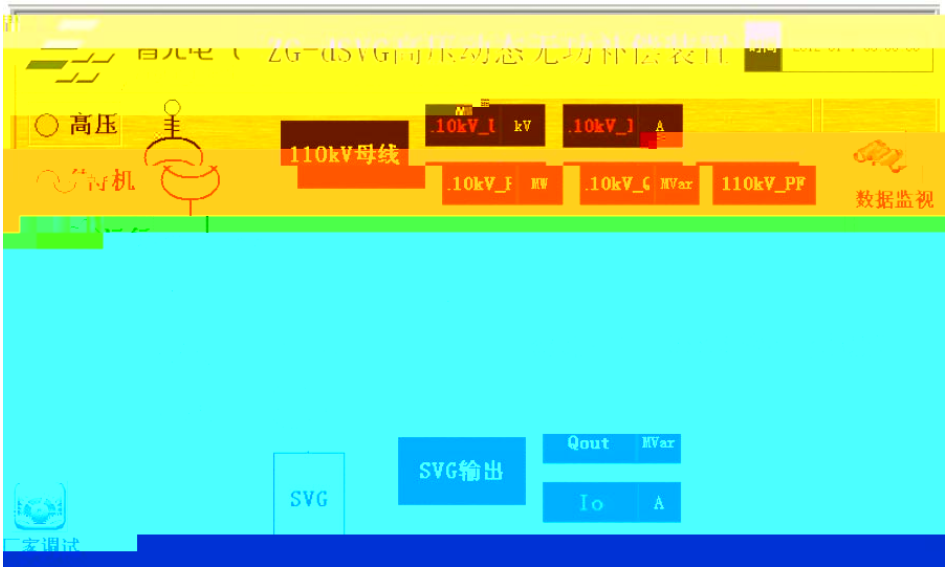
″І Â ὲ ˘

ف Ɉ Л Â

ў à à Э Æ ў ť Â ť ЛЮ╖ '

' ў ╖ й ˘ Ɉ

˘ في 3-9 '




في 3-9 ў

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^ DSP˜ Ɉ ^ FPGA˜ ˘ έ à à Ɉ

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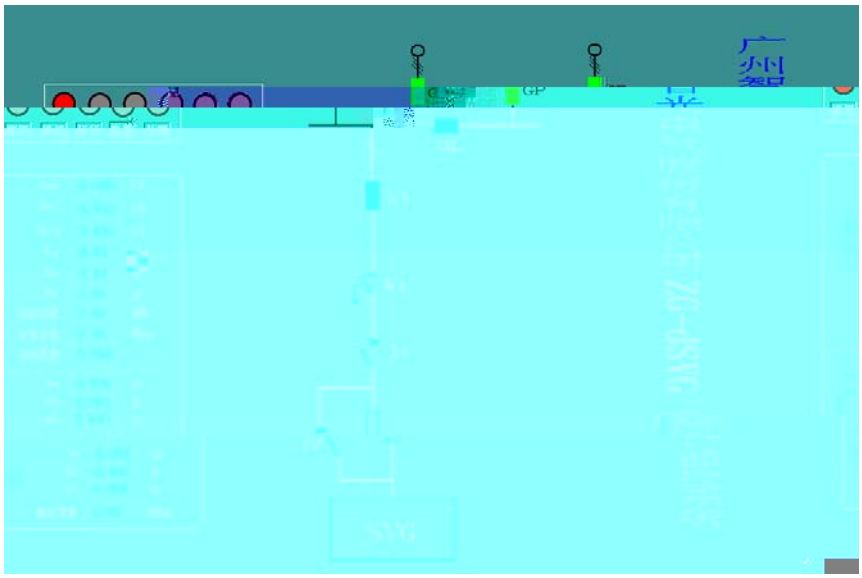
ж ҙ’ ⅃Л ' ѝ RS232/RS485

CAN ˘ RJ45 ˘ ⅃Л Modbus à

Profibus àTCP/IP IEC61850 ’ é GPRS ˘ ⅃ à

˘ GPRS ⅄ ⅄ ㄴ ˘ Â

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8˙ Э Æ ˘ ℸ ў Â

⅃ ℸ ɣ Â

9˙ ⅃ Л ѝ ℸ Â

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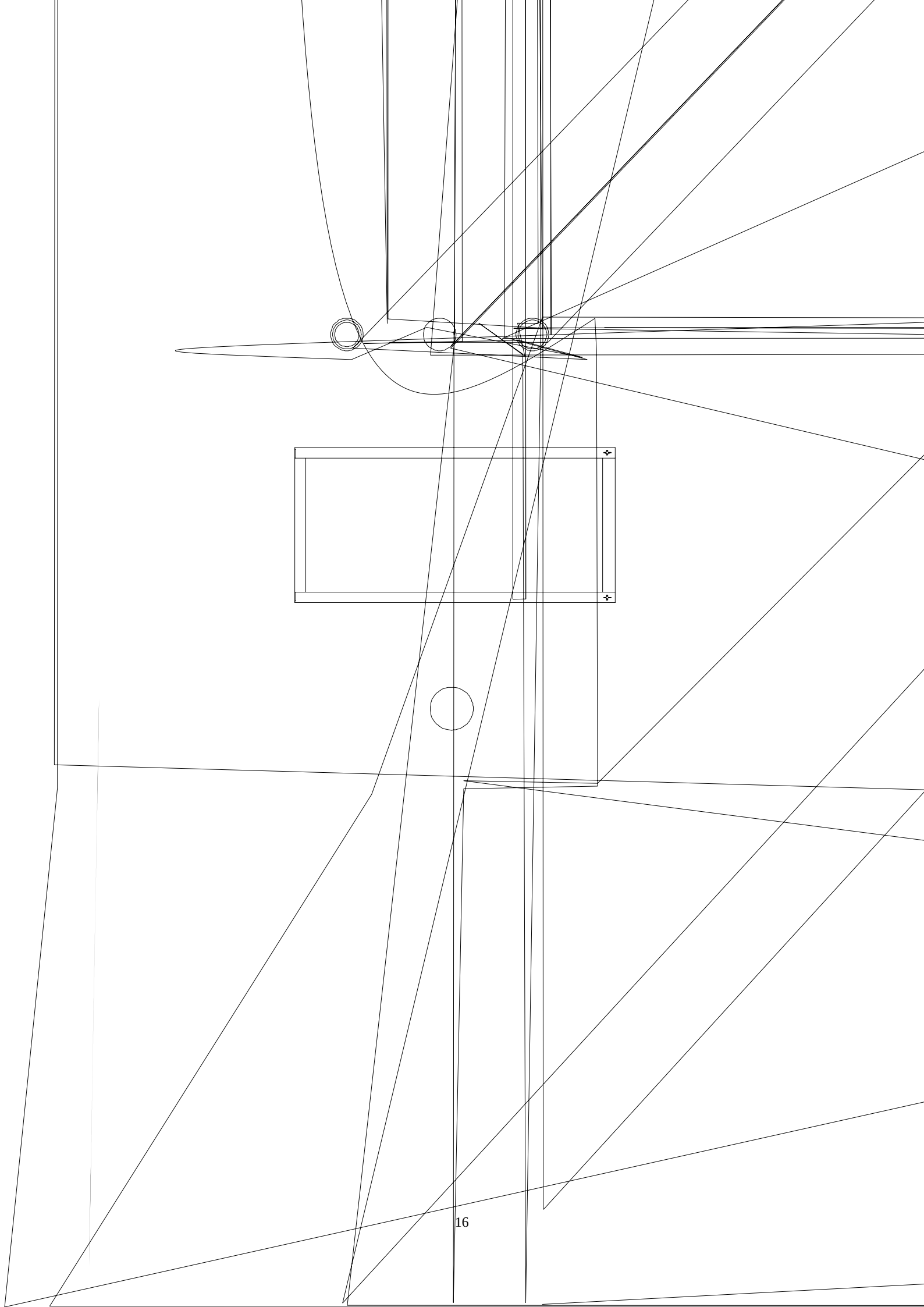
# 4

## 4.1

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## 4.3

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## 5.1

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˘ Э Â

5. Ю˘ Э Ю Ґ ╠ Ł ˘ Â
6. Л˘ ˘ Э Ю Ґ Ł ˘ ÿ ґ Â

## 5.2

1. 380V ╠ ˘ ╟ ˘ Â
2. Э Л˘ Э Â
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˘ Э Â

4. Ю˘ Э Ю Ґ ╠ Ł ˘ Â
5. ˘ ˘ a ÿ Э ґ ˘ ˩ Л Э

Ю Ґ Ł Â

## 5.3

1. Э ˘ ˝І Э ˘ Л Â

2. ˝І ˘ ˘ Ӱ 380V ˘ Л

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5. Э л˘ а Э Â

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## 5.4

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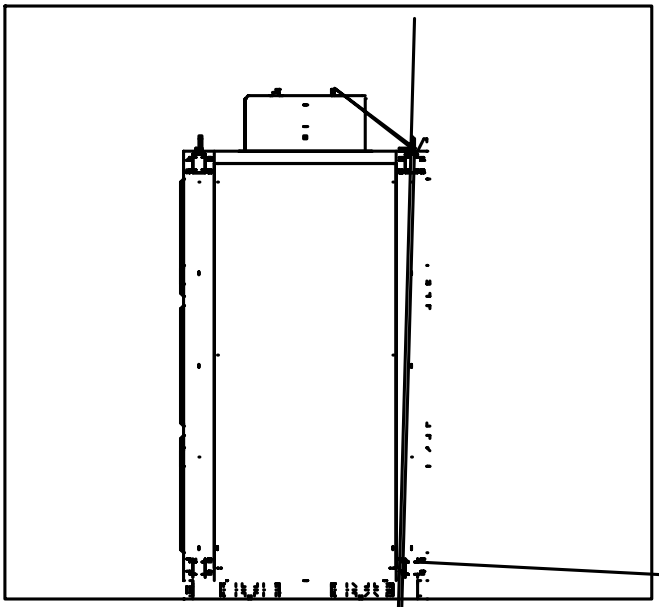
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# 6

## 6.1



## 6.3 ˜

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## 6.4

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S=^ 3300m³/s × A1+ 7100m³/s × A2˜ ÷ V ^ 6-1˜

Э ˘ S и ˘ Æm²

A1 и 450 ˘ Æ ї 1 Ł

A2 и 560 ˘ Æ ї 1 Ł

V и ˘ ↓ 2m/s˜ ↓

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| 7 | 1/2 | 1.<br>2. ╟ ╟<br>3.<br>4. ў | 1.<br>2. ╟ ╟ ˇ ╟<br>Â<br>3. ў |
| 8 | | 1.<br>2. ╟ ╟<br>3.<br>4. ў | 1.<br>2. ╟ ╟ ˇ ╟<br>Â<br>3. ў |
| 9 | | 1.<br>2.<br>3.<br>4. ў | 1.<br>2. ╟ ˇ ʌ Â<br>3. ў |
| 10 | ă | 1.<br>2. ╖<br>3. ў | 1. ў<br>2. ╟ ╖ |
| 11 | | 1. ʌ ╟<br>2. | 1.<br>2. |
| 12 | | 1.<br>2.<br>3.<br>4. ў | 1.<br>2.<br>3. ў |
| 13 | | 1.UPS<br>2.<br>3.<br>4. | 1. UPS<br>2.<br>3.<br>4. |
| 14 | | ў | 1. ў<br>2. ў |
| 15 | | 1. ў<br>2.<br>3. PT a<br>4. ╖ | 1.<br>2.<br>3. ầ SVG<br>PT Â<br>4. ╖ |
| 16 | / / a | 1.<br>2. ў<br>3. | 1.<br>2.<br>3. ў |
| 17 | a | 1.<br>2. ± 15V<br>3. ╖<br>4. ў | 1.<br>2. ± 15V<br>3.<br>4. ў |

7-2 ˘ б ⅄ ⅄ ˘ a

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7-2 ZG-dSVG

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б ″I Л Ь ⅄ ˘ a

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## 8.1

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## 8.2

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3˜ ˘ ő ˘ ↓ Â

4˜ ↓ Л Â

5˜ ↓ Â

## 8.5

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