

STRING BOX TYPE 1

1500 VDC  
16 String Inputs  
244.0 kW, 213.7 A  
Protection: IPS4

Notes

STRING BOX CONFIGURATION

Modules per string: 25 modules  
Inputs: 16 strings  
Repeats 116 times in the plant






The DC load-break switch is rated for 315.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm2. \*The distribution of LV cable sections is representative of the plant.

Legend			
	String of 25 modules connected to the string box		
	Fuse		
	On-load disconnect		
	Surge arrester		
	LV DC cables		

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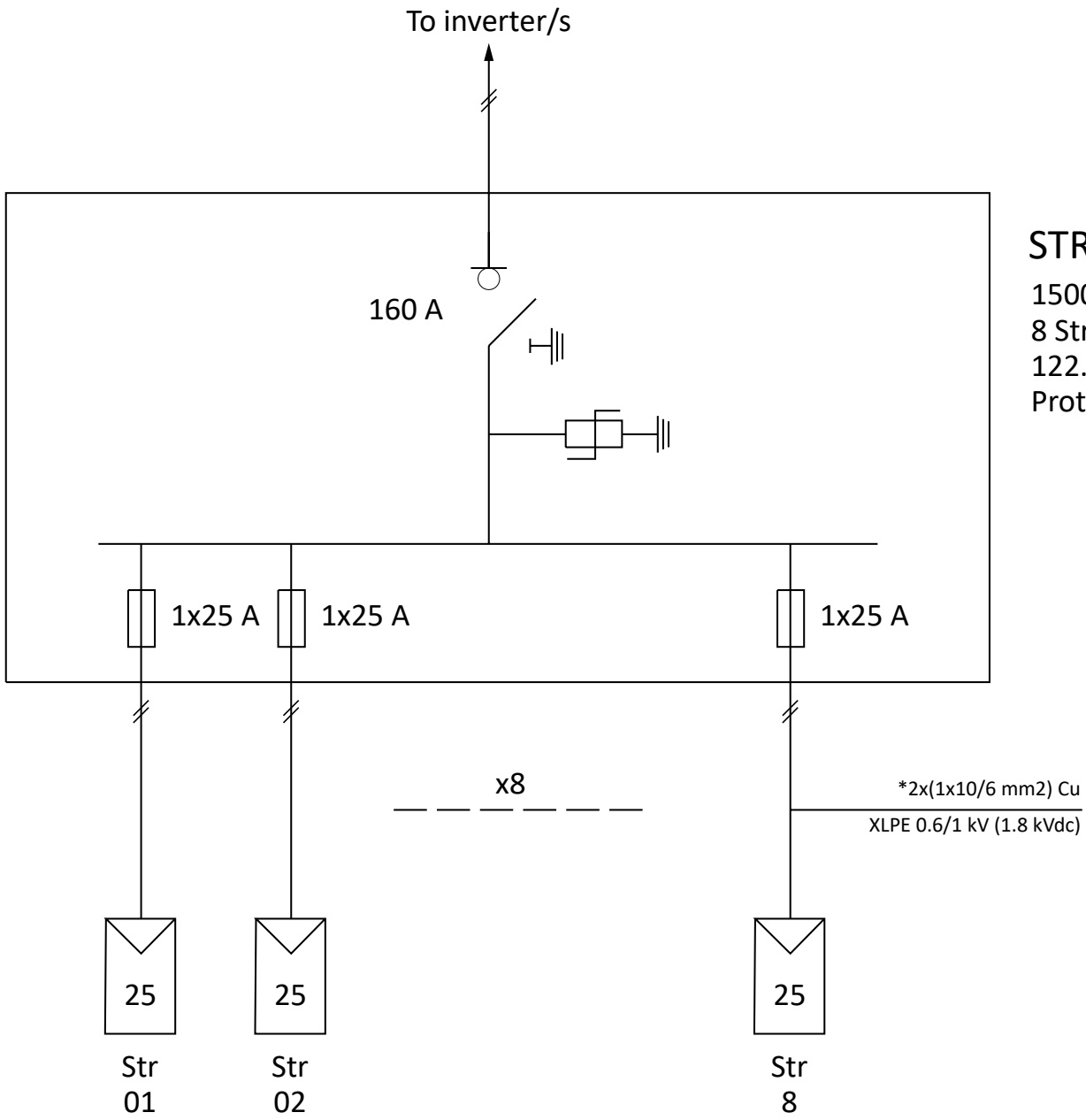
  
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PROJECT:  
Webinar Amperecloud

DRAWING:  
String box Single Line Diagram TYPE 1

SCALE: Not to scale	SHEET: 1 / 26
REVISION: 00	DATE: 2024-10-29

DIN A3



8 Strings per string box  
25 Modules per string  
Generic (default) General610  
Power 610 Wp / 1500 VDC

Notes

STRING BOX CONFIGURATION

Modules per string: 25 modules  
Inputs: 8 strings  
Repeats 19 times in the plant






The DC load-break switch is rated for 160.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm<sup>2</sup>. \*The distribution of LV cable sections is representative of the plant.

Legend	
	String of 25 modules connected to the string box
	Fuse
	On-load disconnect
	Surge arrester
	LV DC cables

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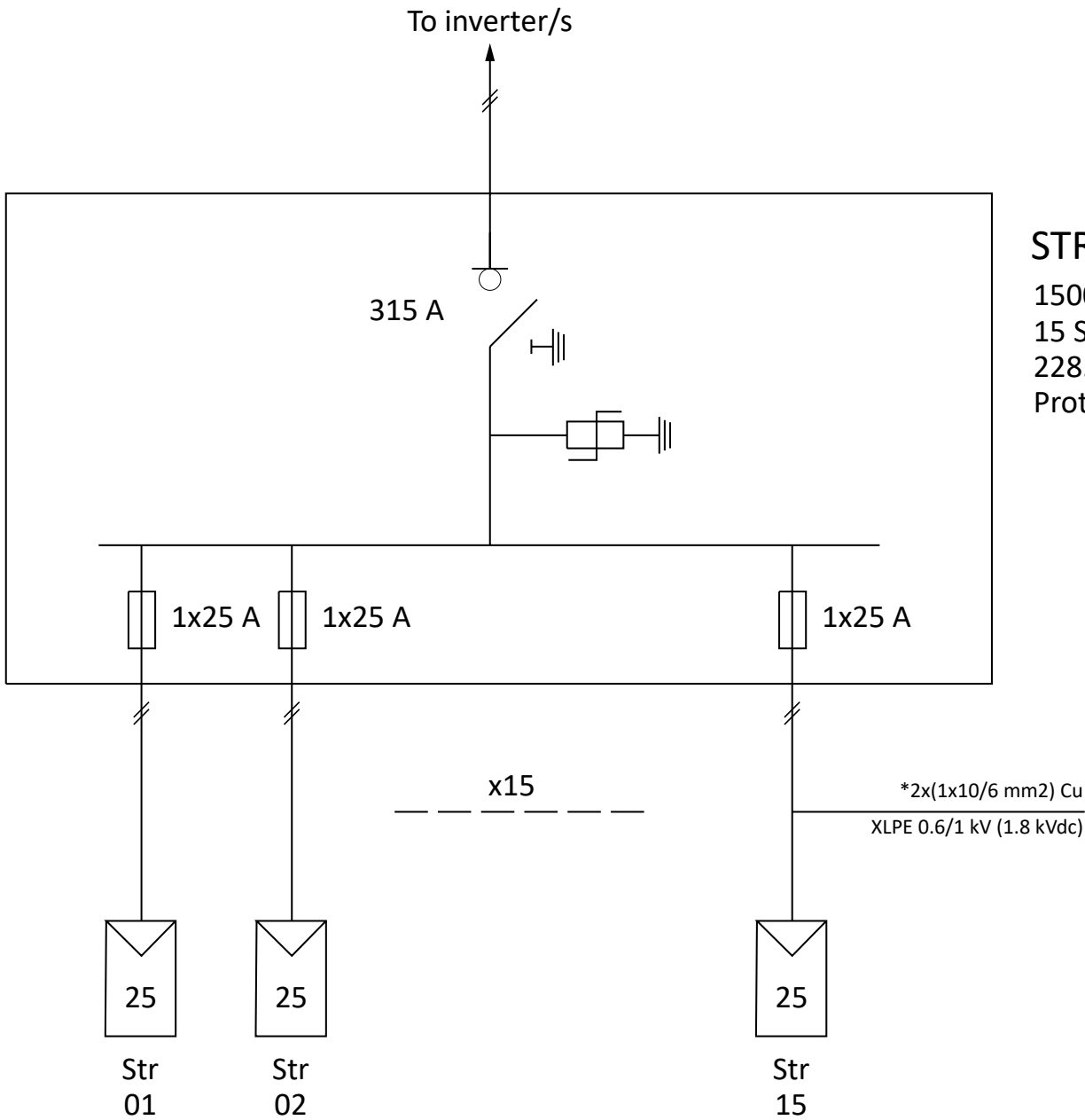
  
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PROJECT: Webinar Amperecloud

DRAWING: String box Single Line Diagram TYPE 2

SCALE: Not to scale	SHEET: 2 / 26
REVISION: 00	DATE: 2024-10-29

DIN A3



**STRING BOX TYPE 3**  
1500 VDC  
15 String Inputs  
228.8 kW, 200.3 A  
Protection: IPS4

**Notes**

STRING BOX CONFIGURATION

Modules per string: 25 modules  
Inputs: 15 strings  
Repeats 13 times in the plant






The DC load-break switch is rated for 315.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm<sup>2</sup>. \*The distribution of LV cable sections is representative of the plant.

Legend			
	String of 25 modules connected to the string box		
	Fuse		
	On-load disconnect		
	Surge arrester		
	LV DC cables		

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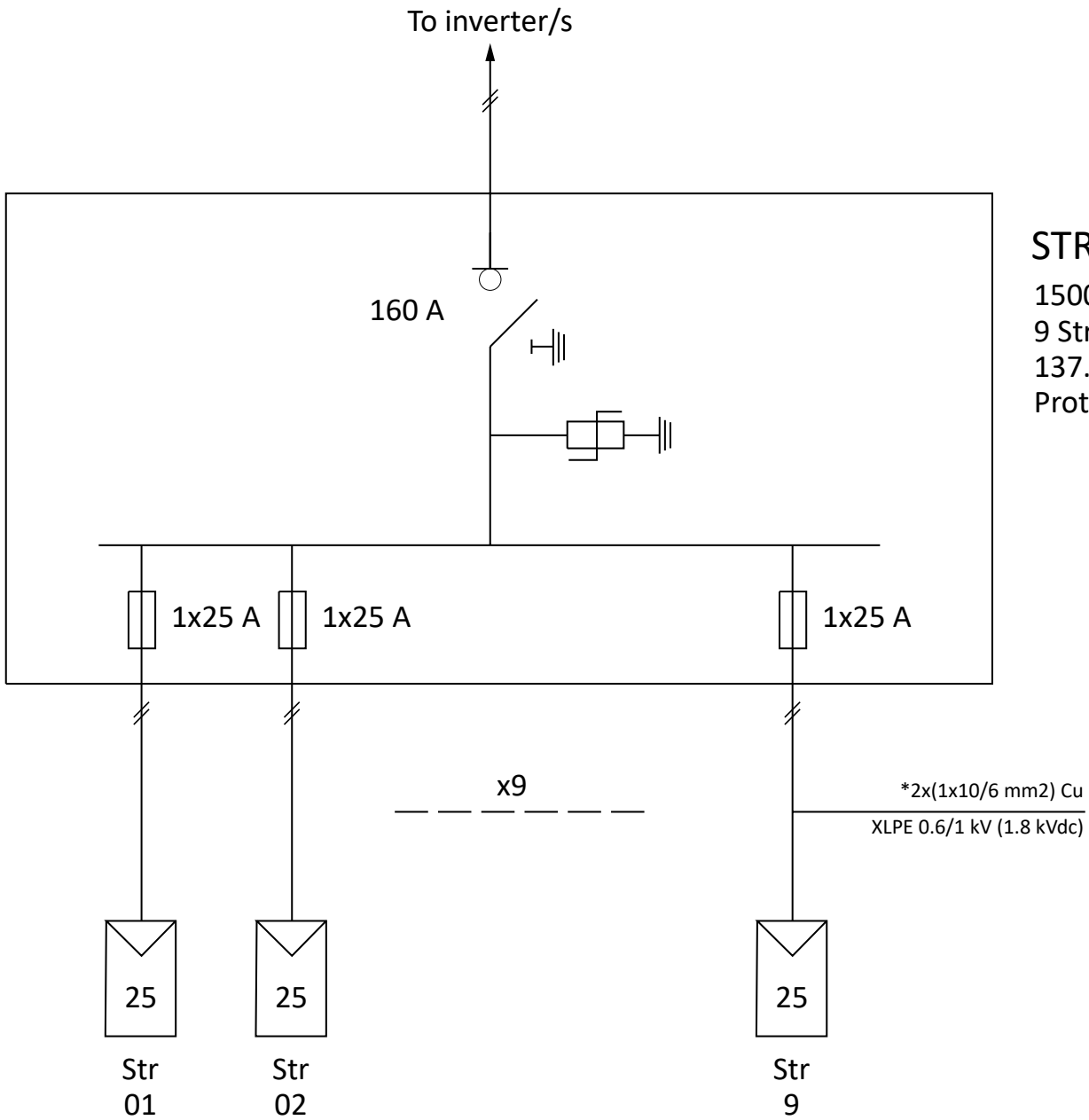
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DRAWING: String box Single Line Diagram TYPE 3

SCALE: Not to scale	SHEET: 3 / 26
REVISION: 00	DATE: 2024-10-29
DIN A3	





9 Strings per string box  
25 Modules per string  
Generic (default) General610  
Power 610 Wp / 1500 VDC

Notes

STRING BOX CONFIGURATION

Modules per string: 25 modules  
Inputs: 9 strings  
Repeats 7 times in the plant






The DC load-break switch is rated for 160.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm2. \*The distribution of LV cable sections is representative of the plant.

Legend	
	String of 25 modules connected to the string box
	Fuse
	On-load disconnecter
	Surge arrester
	LV DC cables

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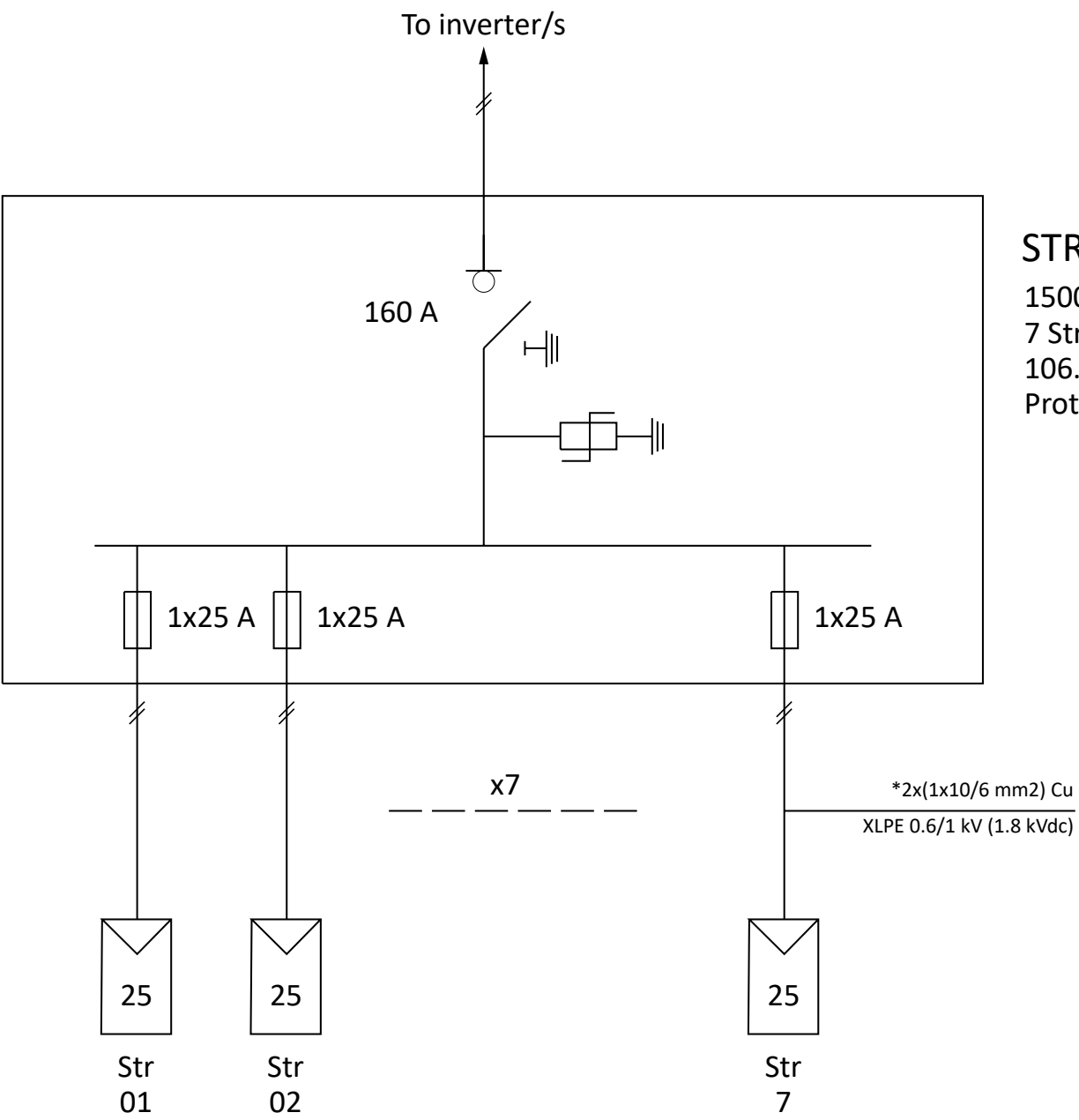
  
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DRAWING: String box Single Line Diagram TYPE 5

SCALE: Not to scale	SHEET: 5 / 26
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DIN A3	



7 Strings per string box  
25 Modules per string  
Generic (default) General610  
Power 610 Wp / 1500 VDC

Notes

STRING BOX CONFIGURATION

Modules per string: 25 modules  
Inputs: 7 strings  
Repeats 1 times in the plant






The DC load-break switch is rated for 160.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm<sup>2</sup>. \*The distribution of LV cable sections is representative of the plant.

Legend	
	String of 25 modules connected to the string box
	Fuse
	On-load disconnect
	Surge arrester
	LV DC cables

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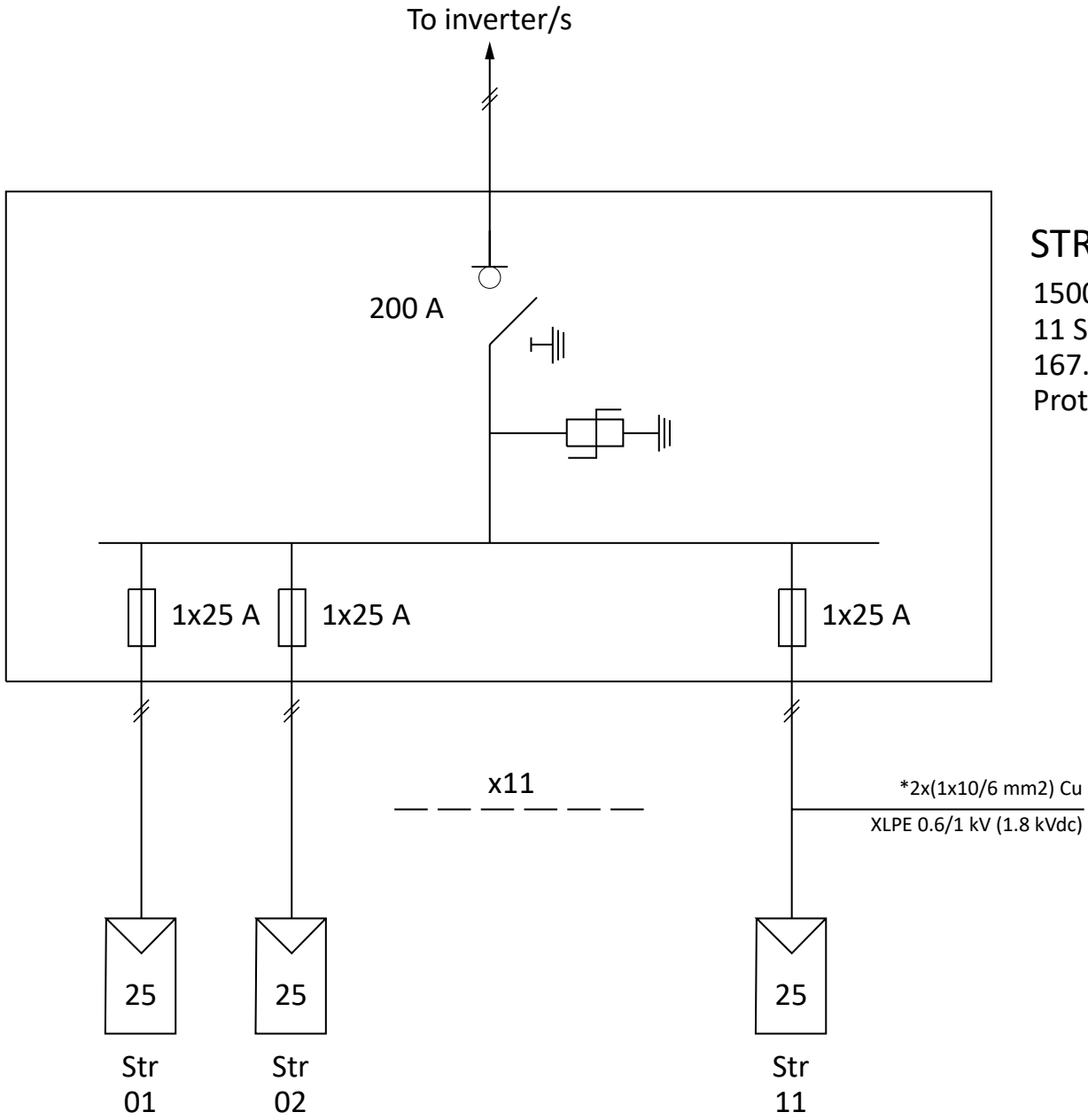


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DRAWING: String box Single Line Diagram TYPE 6

SCALE: Not to scale	SHEET: 6 / 26
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STRING BOX TYPE 8

1500 VDC

11 String Inputs

167.8 kW, 146.9 A

Protection: IPS4

Notes

STRING BOX CONFIGURATION

Modules per string: 25 modules

Inputs: 11 strings

Repeats 1 times in the plant






The DC load-break switch is rated for 200.0 A

Each input has a fuse (not each terminal), rated for 25.0 A. NOTE 1: The proposed fuse is 10x85mm - 25 A - 1500 V - gPV

The box has a surge protection device rated for 1500.0 V. NOTE 2: The surge arrester should be of Class II and with I<sub>max</sub> 40 kA

NOTE 3: It is recommended to select a string box suitable for outdoors installation and with UV resistance

Input cable cross sections: 10/6 mm2. \*The distribution of LV cable sections is representative of the plant.

Legend			
	String of 25 modules connected to the string box		
	Fuse		
	On-load disconnect		
	Surge arrester		
	LV DC cables		

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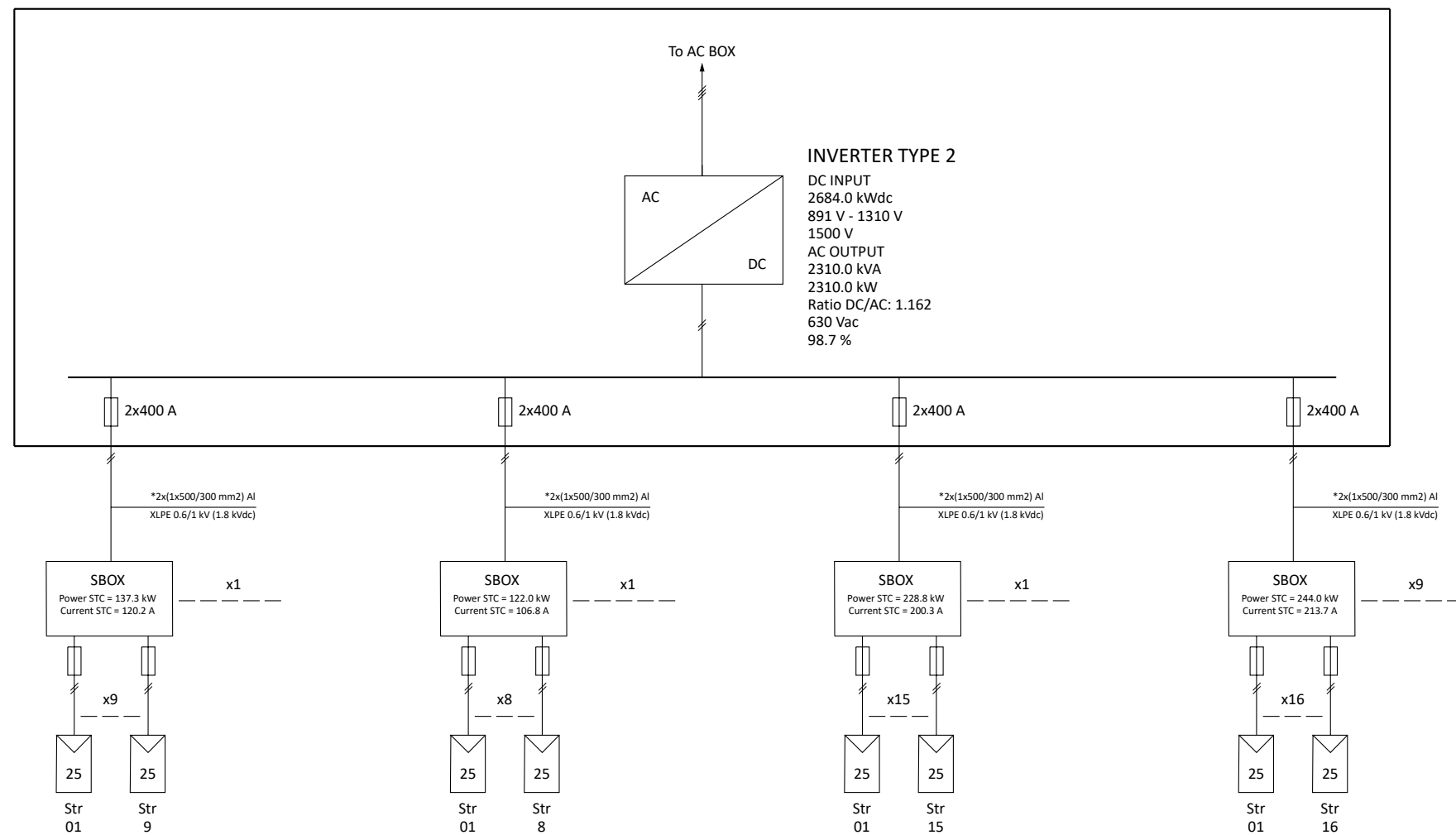
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DRAWING: String box Single Line Diagram TYPE 8

SCALE: Not to scale	SHEET: 8 / 26
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Notes

INVERTER CONFIGURATION

Repeats 2 times in the plant

Manufacturer: Generic (default)  
Model: Generic 2310

Number of strings: 176  
DC Input power: 2684.0 kW  
Ratio DC/AC: 1.162  
Inputs: 12

The inverter diagram represents a typical inverter.  
\*The distribution of LV cable sections is representative of the plant.

Legend

AC

DC

Central Inverter

Fuse

DC LV Cable

AC Cable

25

String of 25 modules connected to the string box

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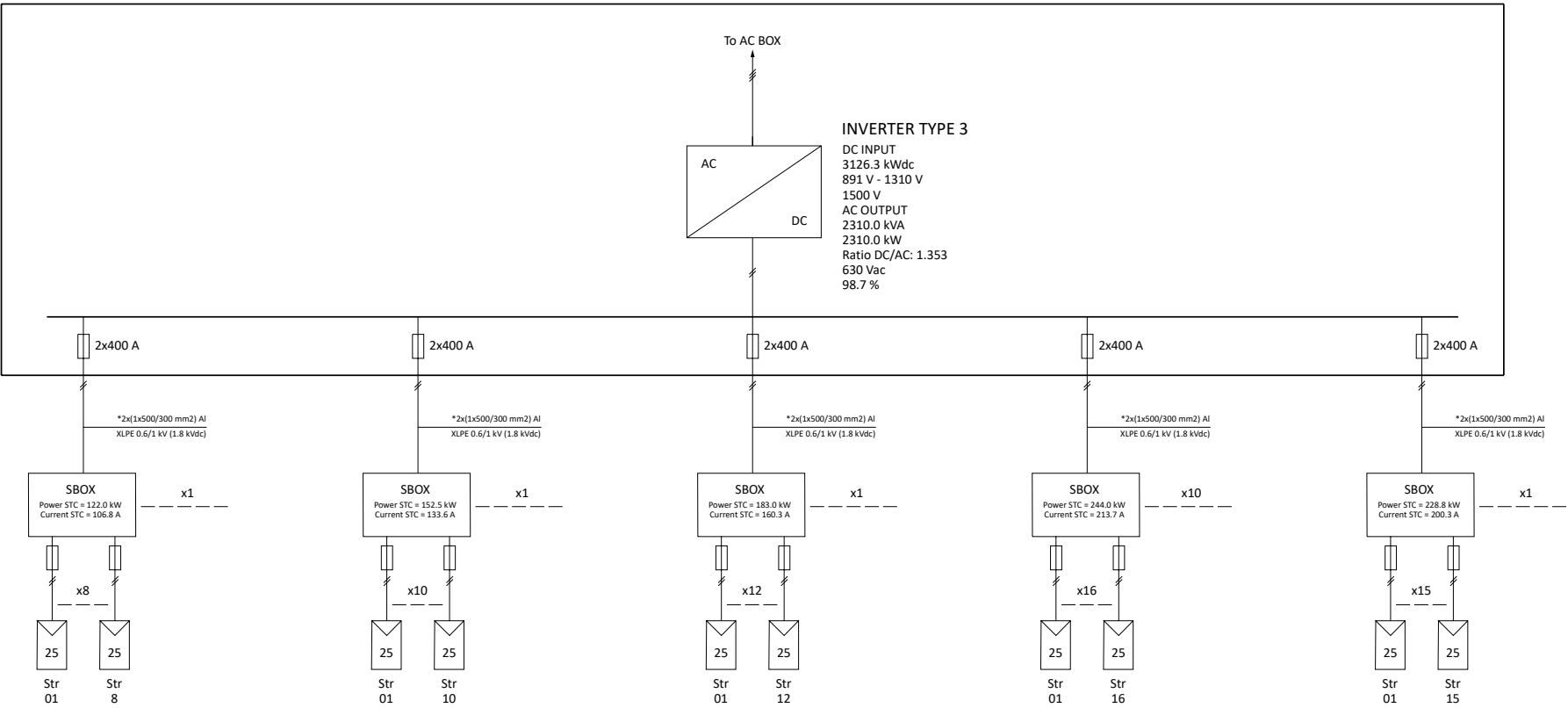
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DRAWING:

Inverter Single Line Diagram TYPE 2

SCALE:	SHEET:
Not to scale	10 / 26
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DIN A3



**Notes**

**INVERTER CONFIGURATION**

Repeats 1 times in the plant

Manufacturer: Generic (default)  
Model: Generic 2310

Number of strings: 205  
DC Input power: 3126.3 kW  
Ratio DC/AC: 1.353  
Inputs: 14

The inverter diagram represents a typical inverter.  
\*The distribution of LV cable sections is representative of the plant.

**Legend**

	Central Inverter
	Fuse
	DC LV Cable
	AC Cable
	String of 25 modules connected to the string box

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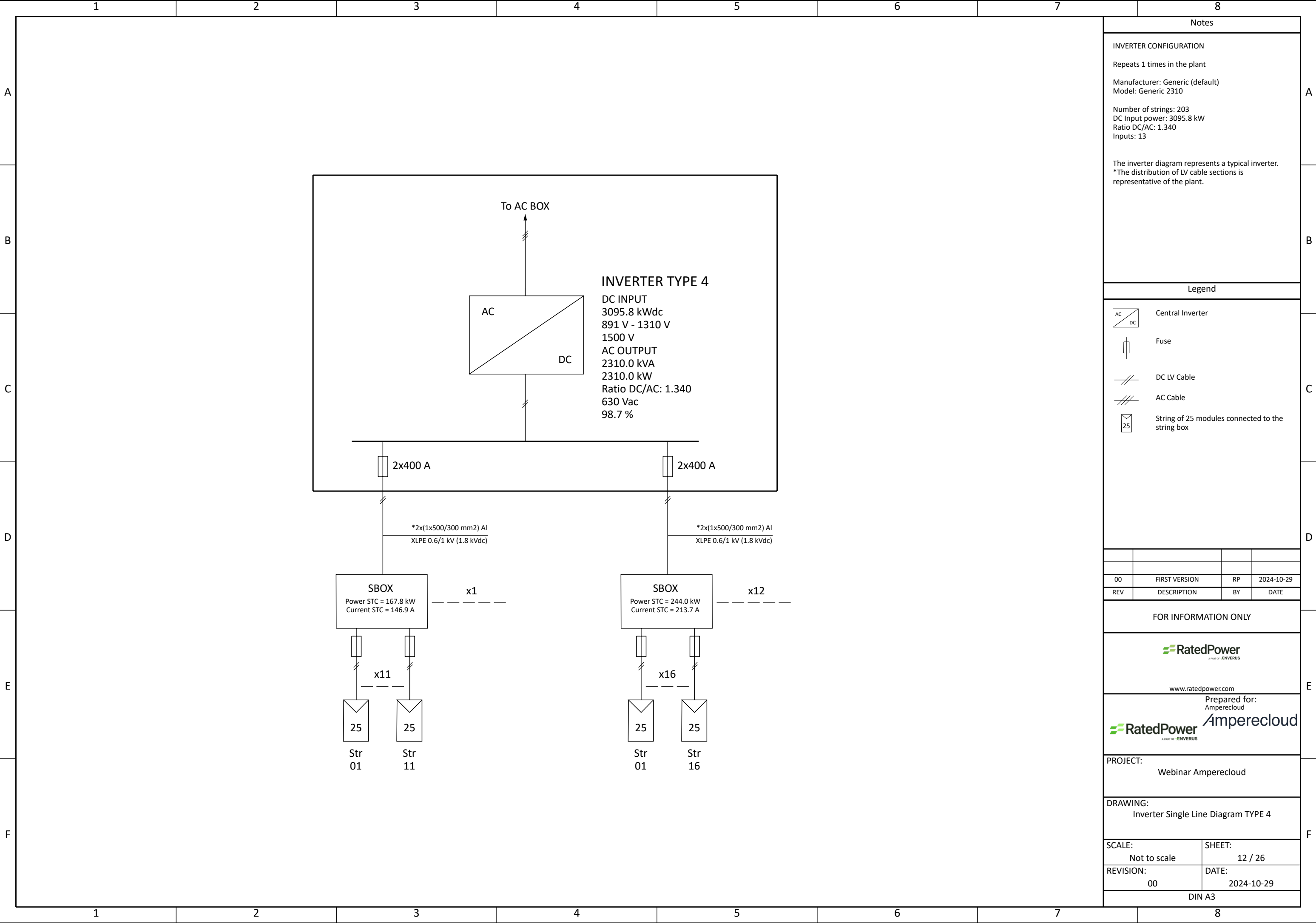
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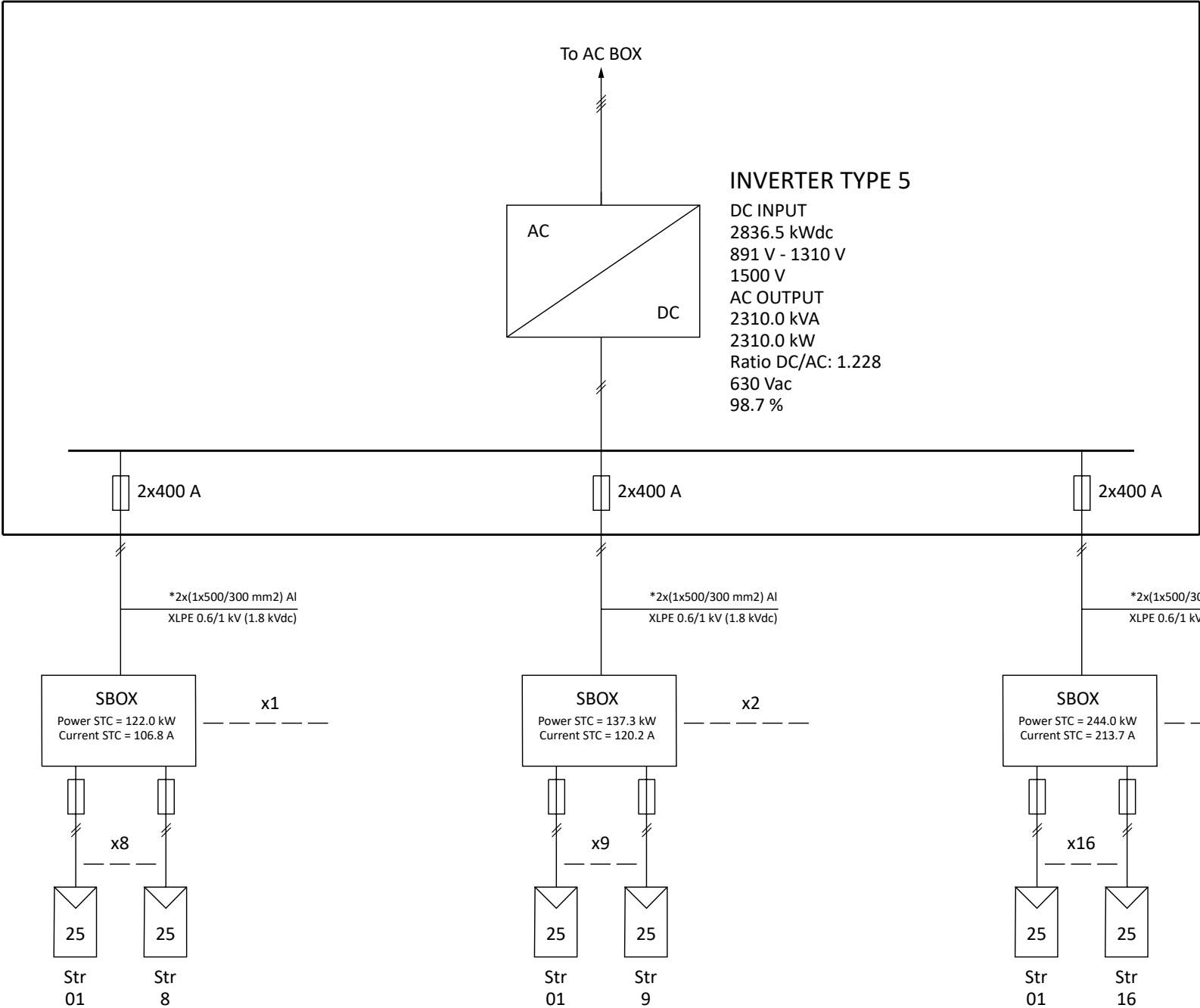
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**DRAWING:**  
Inverter Single Line Diagram TYPE 3

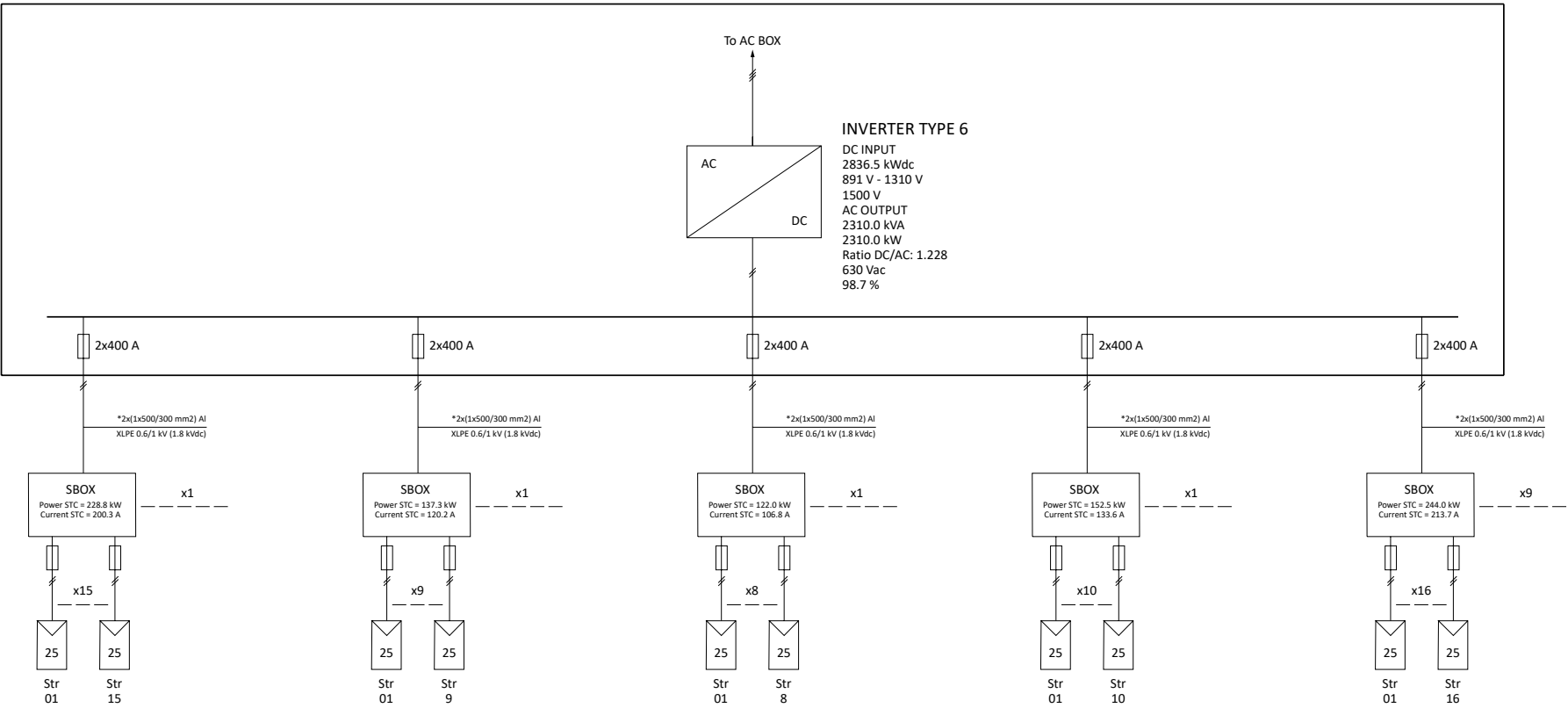
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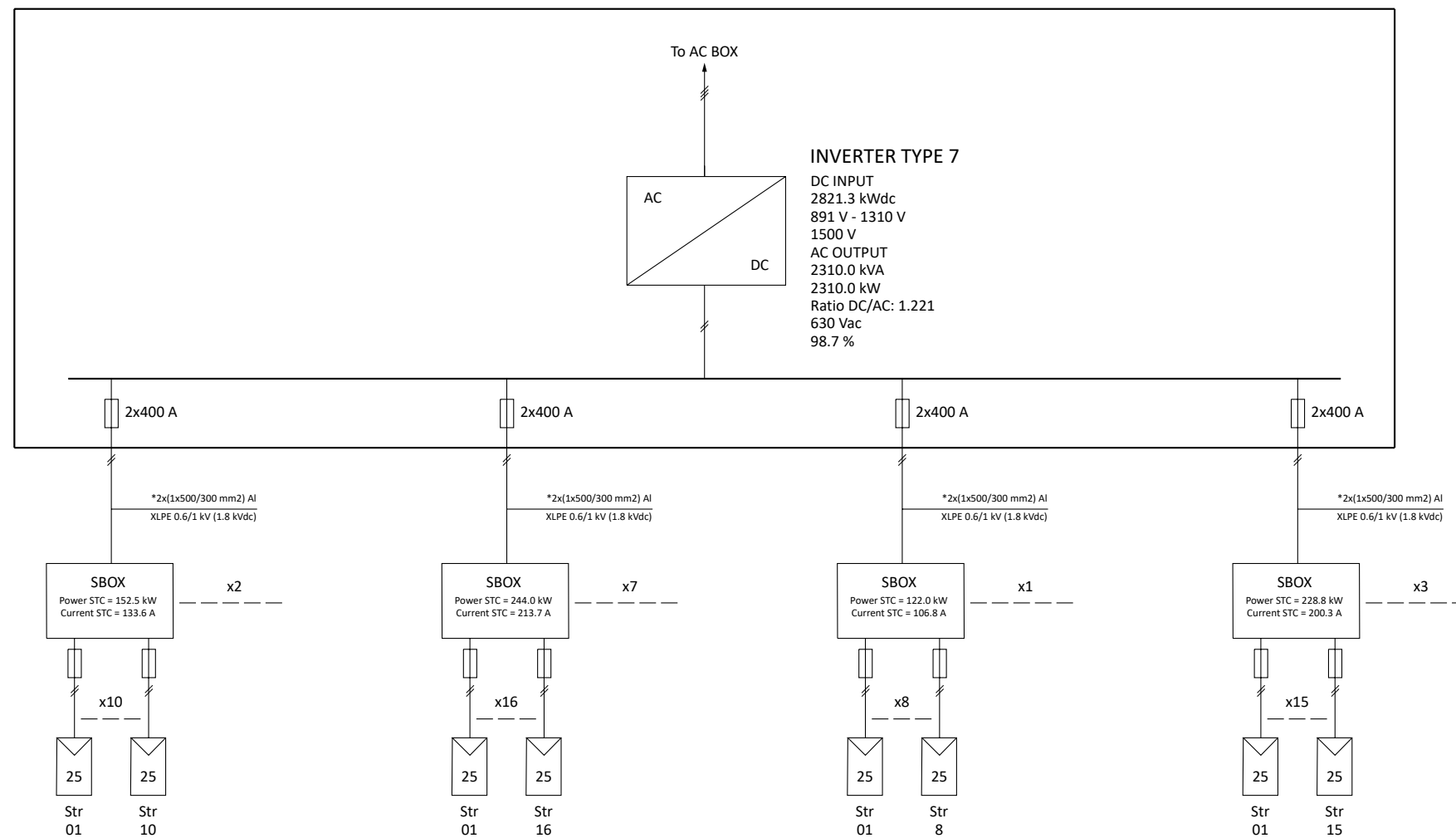
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INVERTER CONFIGURATION			
Repeats 1 times in the plant			
Manufacturer: Generic (default) Model: Generic 2310			
Number of strings: 203 DC Input power: 3095.8 kW Ratio DC/AC: 1.340 Inputs: 13			
The inverter diagram represents a typical inverter. *The distribution of LV cable sections is representative of the plant.			
Legend			
	Central Inverter		
	Fuse		
	DC LV Cable		
	AC Cable		
	String of 25 modules connected to the string box		
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DRAWING: Inverter Single Line Diagram TYPE 4			
SCALE: Not to scale		SHEET: 12 / 26	
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DIN A3			

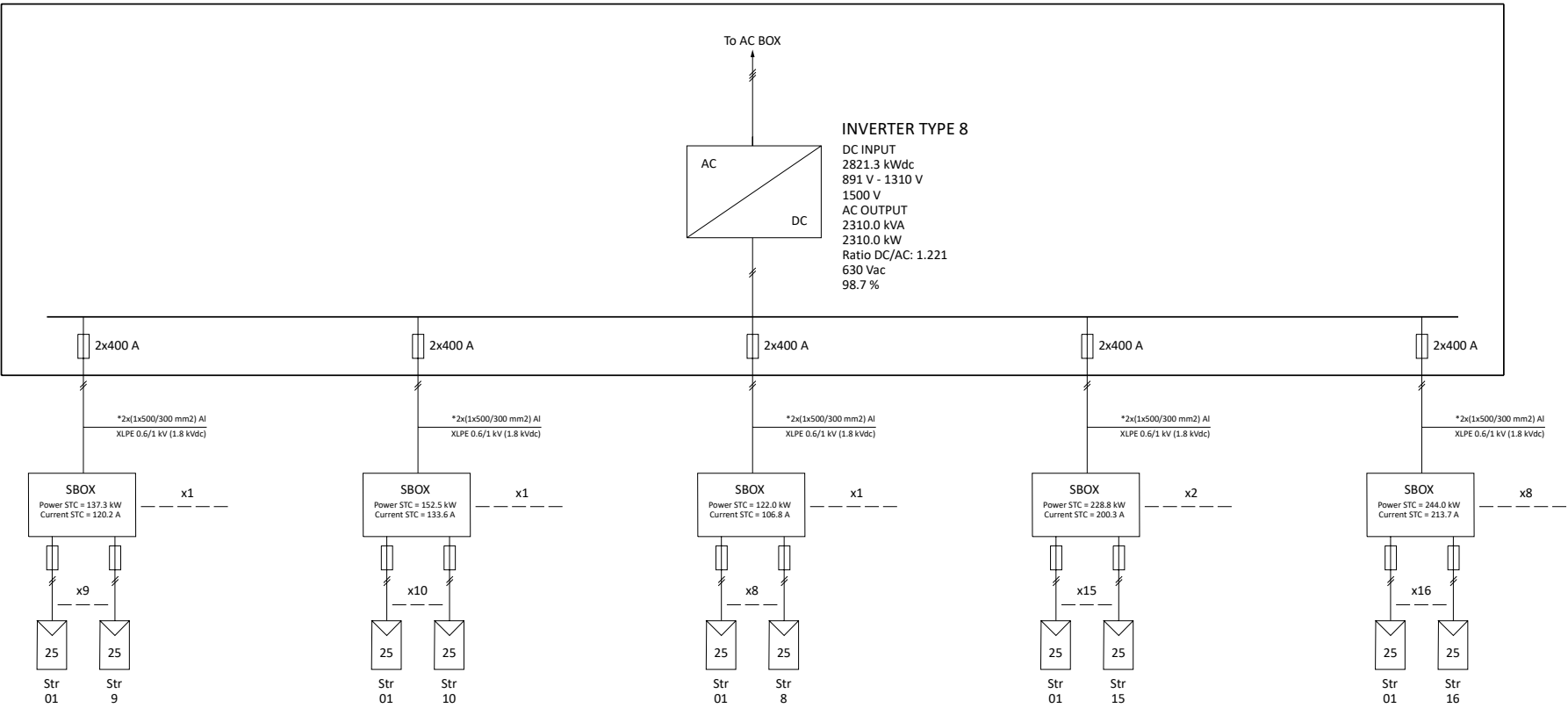


Notes			
INVERTER CONFIGURATION			
Repeats 1 times in the plant			
Manufacturer: Generic (default) Model: Generic 2310			
Number of strings: 186 DC Input power: 2836.5 kW Ratio DC/AC: 1.228 Inputs: 13			
The inverter diagram represents a typical inverter. *The distribution of LV cable sections is representative of the plant.			
Legend			
	Central Inverter		
	Fuse		
	DC LV Cable		
	AC Cable		
	String of 25 modules connected to the string box		
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DRAWING: Inverter Single Line Diagram TYPE 5			
SCALE: Not to scale		SHEET: 13 / 26	
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DIN A3			



Notes			
INVERTER CONFIGURATION			
Repeats 1 times in the plant			
Manufacturer: Generic (default) Model: Generic 2310			
Number of strings: 186 DC Input power: 2836.5 kW Ratio DC/AC: 1.228 Inputs: 13			
The inverter diagram represents a typical inverter. *The distribution of LV cable sections is representative of the plant.			
Legend			
	Central Inverter		
	Fuse		
	DC LV Cable		
	AC Cable		
	String of 25 modules connected to the string box		
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DRAWING: Inverter Single Line Diagram TYPE 6			
SCALE: Not to scale		SHEET: 14 / 26	
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DIN A3			





Notes

INVERTER CONFIGURATION

Repeats 1 times in the plant

Manufacturer: Generic (default)  
Model: Generic 2310

Number of strings: 185  
DC Input power: 2821.3 kW  
Ratio DC/AC: 1.221  
Inputs: 13

The inverter diagram represents a typical inverter.  
\*The distribution of LV cable sections is representative of the plant.

Legend

AC

DC

Central Inverter

Fuse

DC LV Cable

AC Cable

25

String of 25 modules connected to the string box

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DRAWING:  
Inverter Single Line Diagram TYPE 8

SCALE:  
Not to scale

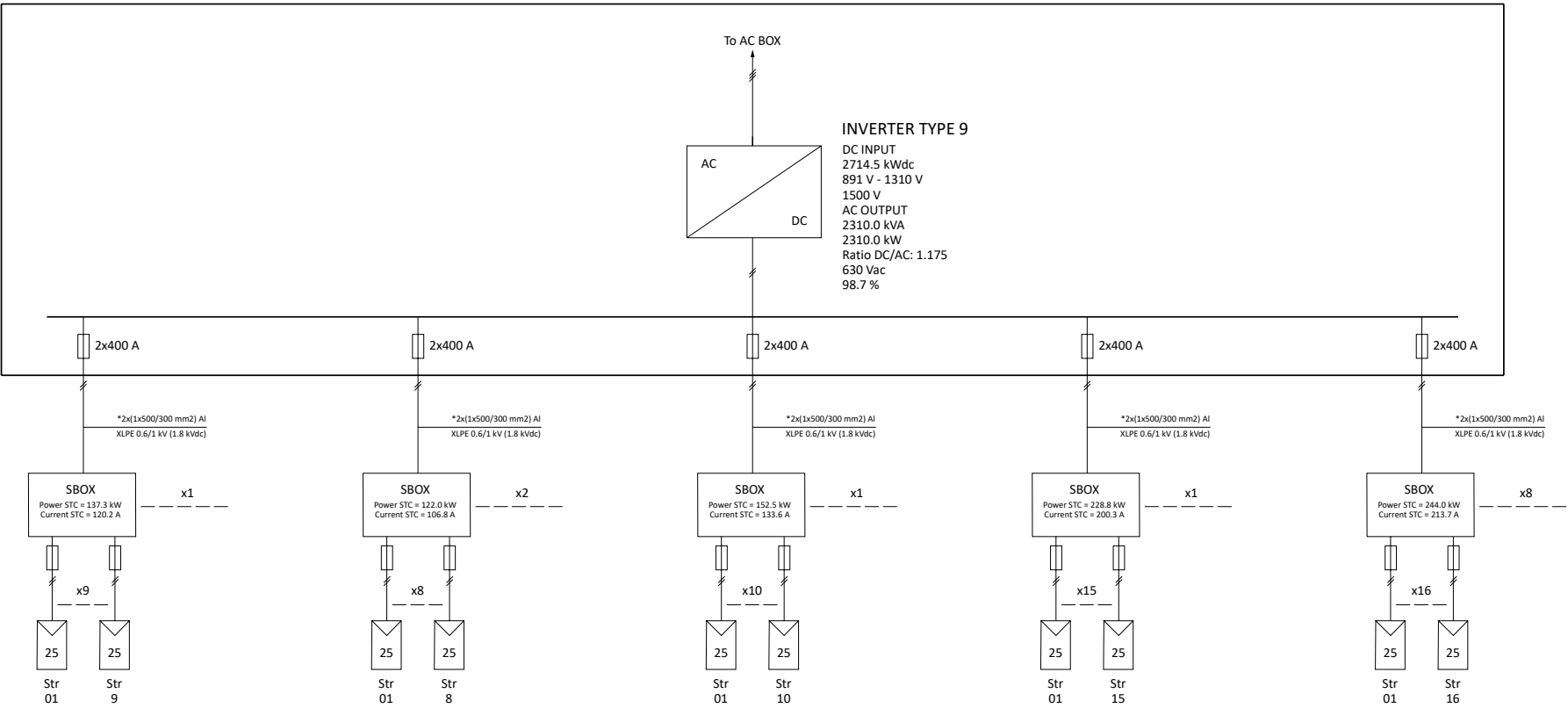
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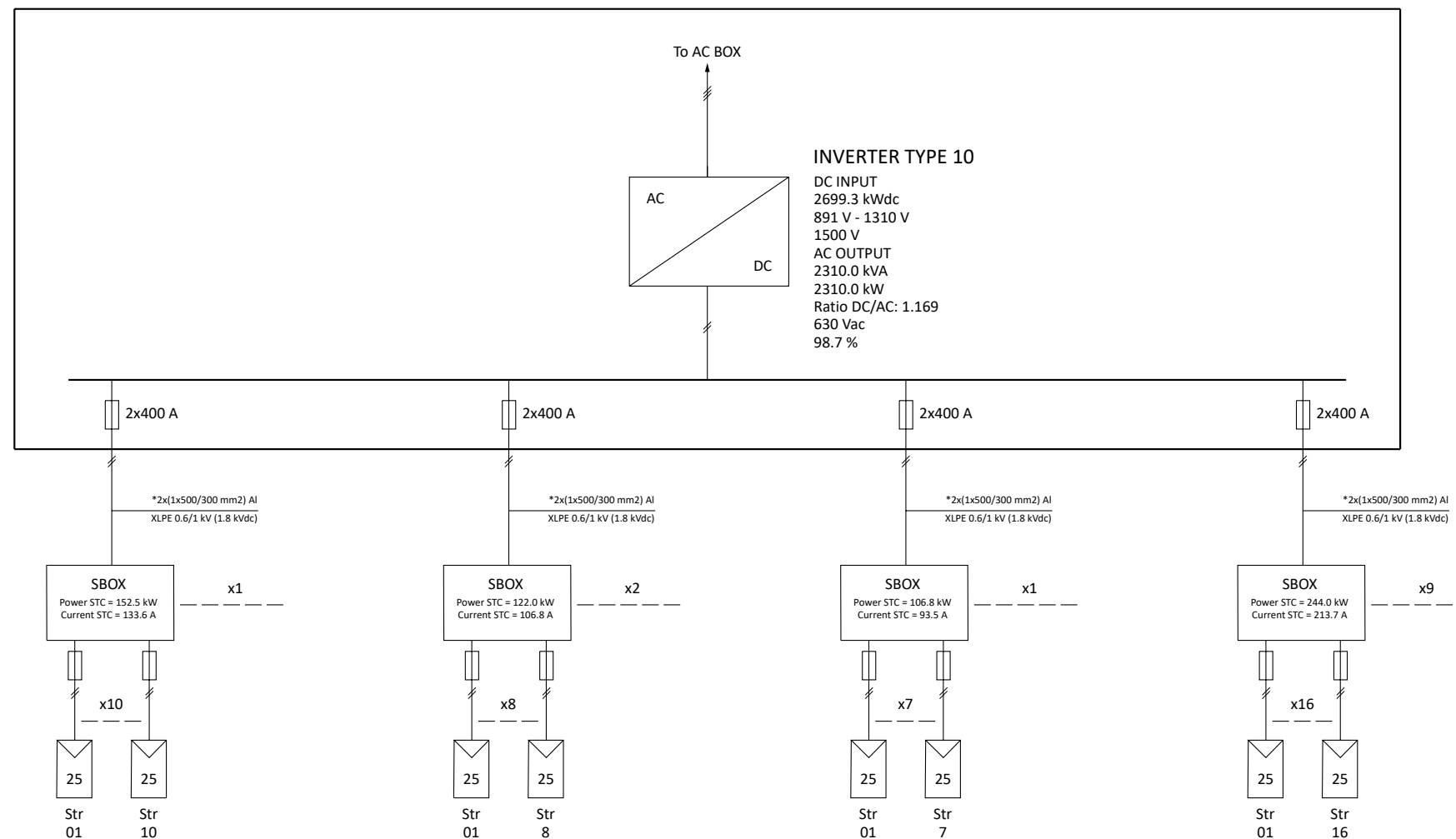
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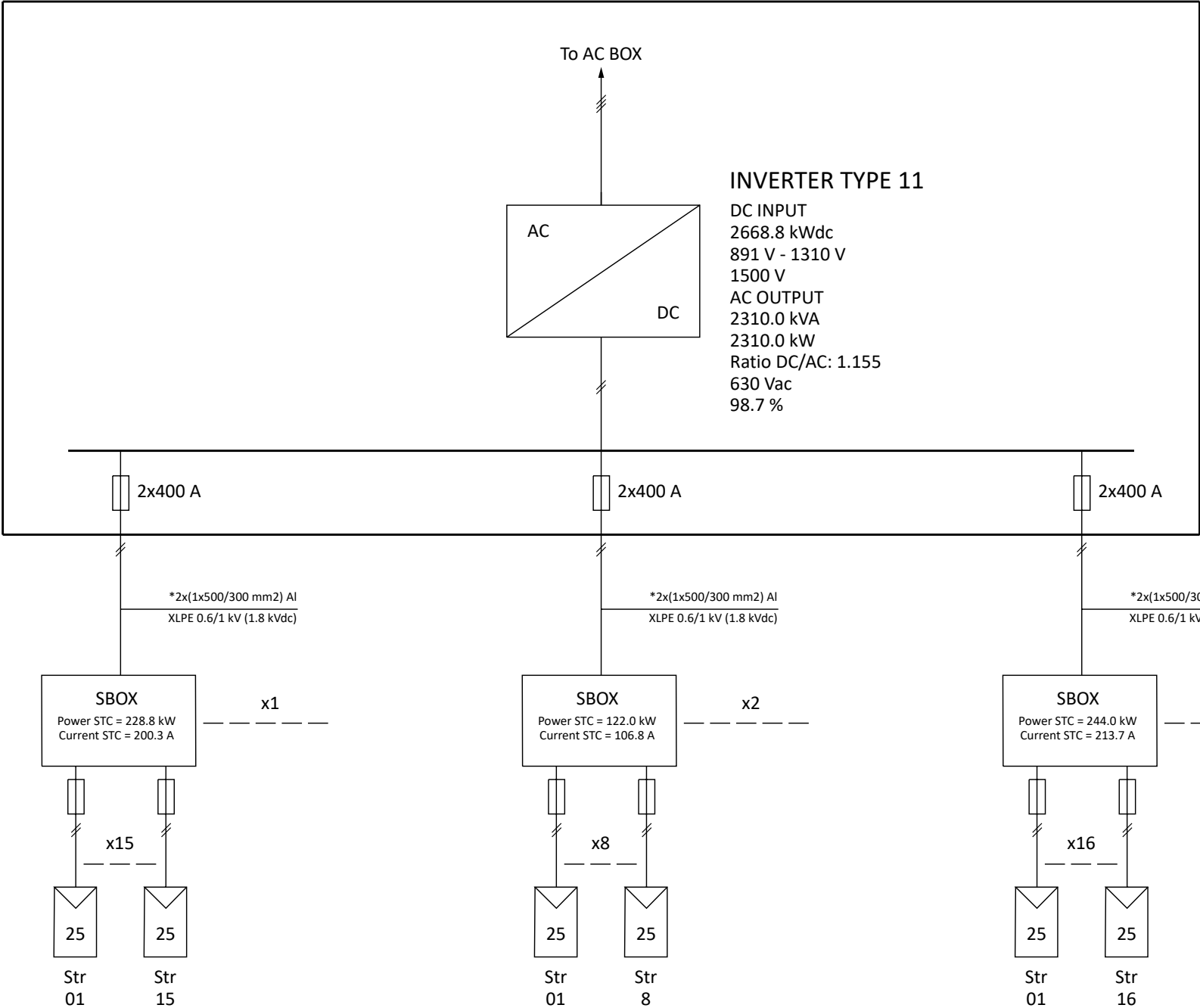




Notes			
<div>INVERTER CONFIGURATION</div> <div>Repeats 1 times in the plant</div> <div>Manufacturer: Generic (default) Model: Generic 2310</div> <div>Number of strings: 178 DC Input power: 2714.5 kW Ratio DC/AC: 1.175 Inputs: 13</div> <div>The inverter diagram represents a typical inverter. *The distribution of LV cable sections is representative of the plant.</div>			
Legend			
<div><div></div><div>Central Inverter</div></div> <div><div></div><div>Fuse</div></div> <div><div></div><div>DC LV Cable</div></div> <div><div></div><div>AC Cable</div></div> <div><div></div><div>String of 25 modules connected to the string box</div></div>			
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DRAWING: Inverter Single Line Diagram TYPE 9			
SCALE: Not to scale		SHEET: 17 / 26	
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DIN A3			



Notes			
<div>INVERTER CONFIGURATION</div> <div>Repeats 1 times in the plant</div> <div>Manufacturer: Generic (default) Model: Generic 2310</div> <div>Number of strings: 177 DC Input power: 2699.3 kW Ratio DC/AC: 1.169 Inputs: 13</div> <div>The inverter diagram represents a typical inverter. *The distribution of LV cable sections is representative of the plant.</div>			
Legend			
<div><div></div><div>Central Inverter</div></div> <div><div></div><div>Fuse</div></div> <div><div></div><div>DC LV Cable</div></div> <div><div></div><div>AC Cable</div></div> <div><div></div><div>String of 25 modules connected to the string box</div></div>			
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DRAWING: Inverter Single Line Diagram TYPE 10			
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DIN A3			



Notes

INVERTER CONFIGURATION

Repeats 1 times in the plant

Manufacturer: Generic (default)  
Model: Generic 2310

Number of strings: 175  
DC Input power: 2668.8 kW  
Ratio DC/AC: 1.155  
Inputs: 12

The inverter diagram represents a typical inverter.  
\*The distribution of LV cable sections is representative of the plant.

Legend

AC

DC

Central Inverter

Fuse

DC LV Cable

AC Cable

25

String of 25 modules connected to the string box

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Inverter Single Line Diagram TYPE 11

SCALE:

Not to scale

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19 / 26

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