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DATA CENTERS

# **ABB Data Centers 3D Configurator**

## Configure Your Individual Data Center

### Low Voltage Power Distribution





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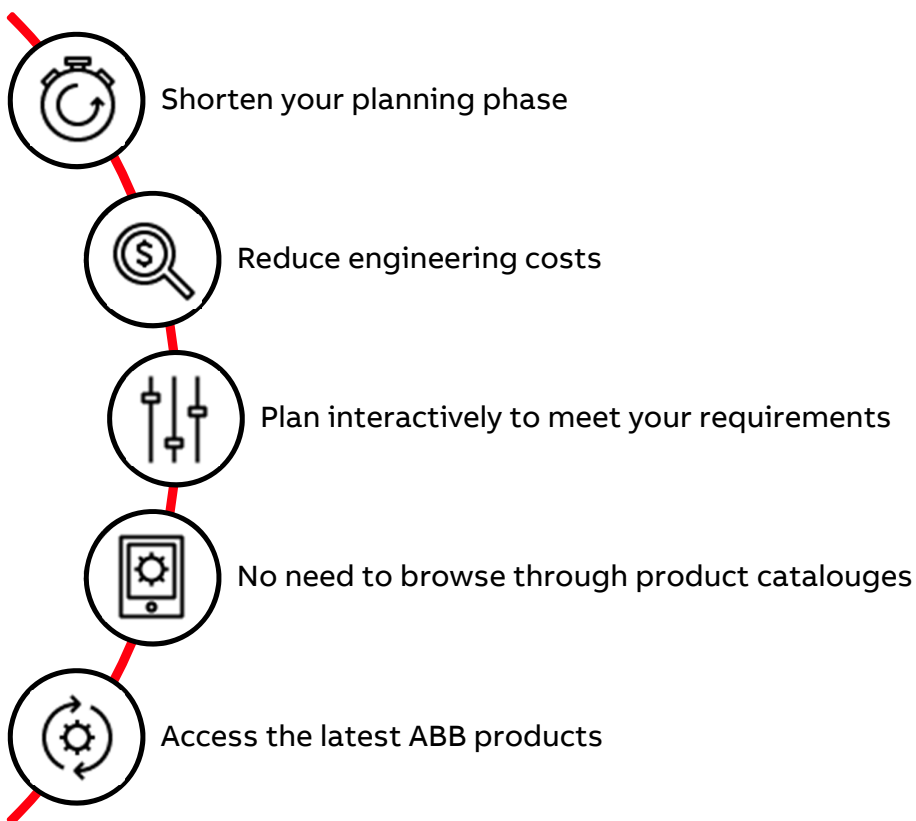
## General Information

Planning the energy distribution in Data Centers is complex and time-consuming. To save time, use the ABB Data Centers 3D configurator – efficient, user-friendly and customer-oriented. With the Configurator, you can create a customized low voltage power distribution for your Data Center project on your iPad or Google chrome web browser – without the need of in-depth knowledge of electrical planning.

- Select IT related specifications (e.g. number of servers)
- Automatically generate a low voltage power distribution for your project
- Receive technical specifications and a bill of material via e-mail
- Share your configuration with our support team to request a quotation
- Enjoy a 3D experience of your data center project

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## Key Benefits



## Your Project

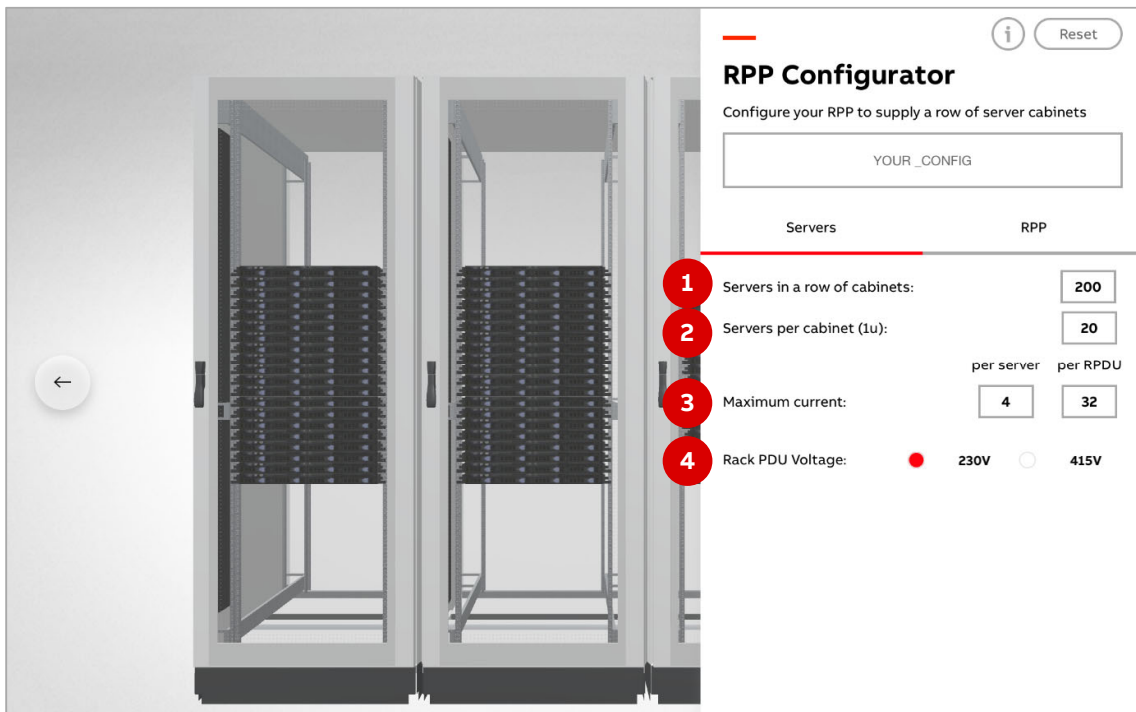
When you start the Configurator, a detailed overview of a Data Center with its different areas appears:

1. Select the field 'Remote Power Panel' to access the Configurator
2. Click on the top right corner 'Create New Project'
3. Enter the project name, your e-mail address and the country of the project
4. Save your project and enter a configuration name
5. Start designing the low voltage power distribution for your project

## Server Configuration Tab

To ensure that the low voltage power distribution matches your IT requirements, enter the server related specifications first. You can determine the following specifications to fulfill your needs:

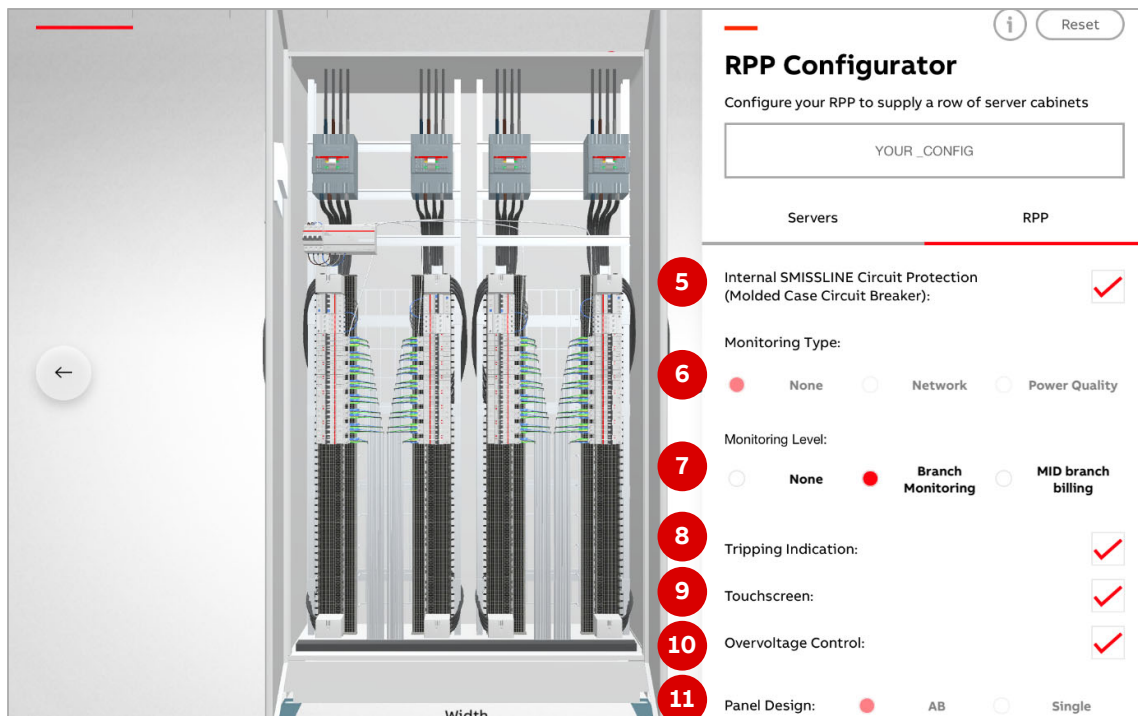
- 1 **Servers in a row of cabinets:** Enter the number of servers in a row of server racks
- 2 **Servers per cabinet:** Enter the number of servers per server rack
- 3 **Maximum current per server:** Choose the maximum current per server rack PDU
- 4 **Rack PDU voltage:** Choose the voltage supply for the servers



## Power Distribution Configuration Tab

Based on your IT specifications, the Configurator will automatically create an operational low voltage power distribution that will ensure a continuous power supply for the server racks. For further customization, you can modify the following characteristics of the power distribution:

<b>5 Internal circuit protection</b>	Choose whether the Molded Case Circuit Breaker (MCCB) is in- or outside the panel
<b>6 Monitoring type</b>	Choose between different products which ensure the power quality
<b>7 Monitoring level</b>	Choose between branch monitoring and MID billing
<b>8 Tripping indicator</b>	Choose auxiliary contacts that indicate why a circuit breaker tripped
<b>9 Touchscreen</b>	Choose touchscreens with embedded operating systems to visualize processed data
<b>10 Overvoltage control</b>	Choose surge protection devices to protect the equipment against voltage spikes
<b>11 Panel design</b>	Choose whether the redundant power supply is within the same enclosure or separately
<b>12 Switch neutral line</b>	Choose MCBs with additional N switch if protection of the neutral line is required



## Try It Yourself

Assume that you receive specifications for a new Data Center project. Based on these specifications, you can derive the following parameters and enter them in the Configurator:

Data Center Specifications	Inputs for Configurator
Total IT capacity of 2 MW with 1000W per server	= 2MW/1000W = 2000 servers in a row of cabinets
Tier 3 redundancy level with A and B power supply in one cabinet	= Panel Design: AB
Power monitoring system required	= Branch Monitoring
Values should be visualized outside the cabinet and in a DCIM	= Touchscreen
Protection against voltage spikes with a surge protector	= Overvoltage Control

After entering the parameters and sharing your configuration, you will receive the bill of material and technical specifications via e-mail.

## AR View

The iOS app for the iPad has an AR view that reveals a 3D experience of a Data Center. To activate it, press the “AR view” button in the app and point the camera on the picture on the right.



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## How to get it:

For Google Chrome:



<https://bit.ly/2lrLPTw>

For iPad:



Requires iOS 9.3 or later.  
Compatible with iPad.

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### Additional Information

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**ABB Switzerland Ltd.**  
**Electrification Products Building Products**  
Fulachstrasse 150  
8201 Schaffhausen  
SWITZERLAND  
Phone: +41 5858 64111  
E-mail: CH-DataCenter@abb.com