Automation Server
PS-24V Power Supply
Enables StruxureWare Building Operation v1.3

Automation Server power supply modules are designed to accommodate the specific power requirements of the Automation Server and its connected I/O modules.
Automation Server PS-24V Power Supply Module

Features

The PS-24V is a power supply module that accommodates 24 VAC or 24 VDC input power.

Reliable consistent output power
Each power supply module delivers reliable and consistent output power of 24 VDC to the backplane.

Modular and scalable system
This power supply supports the Automation Server and its family of I/O modules. This modular system delivers power and communications on a common bus. Connecting modules is a one-step process: just slide the modules together using the built-in connectors.

A 30 W power supply can deliver power to the Automation Server and a number of I/O modules calculated from the Power Budget Table (located on page 3). If more I/O modules are needed, another power supply can be added to the bus. The power supplies are isolated from each other while also providing communication pass-through.

Polarity independent
The power supply input (from main power) and output (to modules) are galvanically isolated. This removes the risk of damage due to earth currents and permits the input power to be wired without concern for polarity matching.

Overload protection
When a power supply module’s load (total load of Automation Server, I/O modules, communication modules) exceeds its rating, the power supply will protect itself from being damaged.

Patented two-piece design
Each module can be separated from its terminal base to allow the site to be wired prior to the installation of the electronics. The patented locking mechanism serves as handles for removing the module from its base. All critical components have a protective cover that permits natural convection cooling to occur.
Hot-connect / Hot-swap
Because critical applications require 24-hour operation, Schneider Electric designed the entire family of modules for hot-connection of terminal bases and hot-swapping of modules to and from their bases. This design ensures continuous power and communication during service operations.

Auto-addressing
The auto-addressing feature eliminates the need for setting DIP switches or pressing commission buttons. With the Automation Server family, each module automatically knows its order in the chain and assigns itself accordingly.

Simple DIN-rail installation
Fasteners easily snap into a locked position for panel installation. The fastener has a quick-release feature for easy DIN rail removal.

Accommodates multiple row panel installations
The Automation Server module family uses built-in connectors for single row connectivity. If a panel size requires multiple rows, an interconnection cable is available.

30 W rating
This power supply module can supply power for loads up to 30 W. The consumption of downstream modules can vary. A PS-24V can typically power an Automation Server and a number of I/O modules calculated from the Power Budget Table.

Status indicators
The front panel of the PS-24V module includes status LEDs for input and output power. The LED for input power indicates the status of the main power. The output power indicator shows if the power supply output is within the proper range.

<table>
<thead>
<tr>
<th>Power Budget Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 VDC Power</td>
</tr>
<tr>
<td>Automation Server</td>
</tr>
<tr>
<td>Input Only I/O</td>
</tr>
<tr>
<td>DI-16</td>
</tr>
<tr>
<td>Output Only I/O</td>
</tr>
<tr>
<td>DO-FA-12</td>
</tr>
<tr>
<td>DO-FA-12-H</td>
</tr>
<tr>
<td>DO-FC-8</td>
</tr>
<tr>
<td>DO-FC-8-H</td>
</tr>
<tr>
<td>AO-8</td>
</tr>
<tr>
<td>AO-8-H</td>
</tr>
<tr>
<td>AO-V-8</td>
</tr>
<tr>
<td>AO-V-8-H</td>
</tr>
<tr>
<td>Mixed I/O</td>
</tr>
<tr>
<td>UI-8/DO-FC-4</td>
</tr>
<tr>
<td>UI-8/DO-FC-4-H</td>
</tr>
<tr>
<td>UI-8/AO-4</td>
</tr>
<tr>
<td>UI-8/AO-4-H</td>
</tr>
<tr>
<td>UI-8/AO-V-4</td>
</tr>
<tr>
<td>UI-8/AO-V-4-H</td>
</tr>
</tbody>
</table>

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## Specifications

### Electrical

**I/O bus power**
- 24 VDC, max. 30 W per I/O bus power supply, Class 2

**Maximum addresses per I/O bus**
- 32

**AC input**
- **Nominal voltage**
  - 24 VAC, 50/60 Hz
- **Operating range**
  - 24 VAC, ±20 %, 50/60 Hz
- **Input current**
  - Max. 2.5 A rms
- **Recommended transformer rating**
  - ≥ 60 VA

**DC input**
- **Nominal voltage**
  - 24 to 30 VDC
- **Operating range**
  - 21 to 33 VDC
- **Power consumption**
  - Max. 40 W

**DC output**
- **Output voltage**
  - 24 V ± 1 V
- **Output power**
  - Max. 30 W

### Mechanical

**Enclosure**
- Eco Friendly ABS/PC

**Enclosure rating**
- IP 20

**Plastic rating**
- UL94-5VB rated plastic

**Dimensions (including terminal base)**
- 90 W x 114 H x 64 D mm
  - (3.6 W x 4.5 H x 2.5 D in.)

**Weight (including terminal base)**
- 0.285 kg (0.63 lb)

**Weight (excluding terminal base)**
- 0.186 kg (0.41 lb)

**Installation**
- DIN-rail or panel installation

### Agency compliances

**Emission**
- C-Tick; EN 61000-6-3; FCC Part 15, Sub-part B, Class B

**Immunity**
- EN 61000-6-2

**Safety**
- UL 916 C-UL US Listed

### Part numbers

**PS-24V, Power Supply 24 VAC/VDC**
- P/N: SXWPS24VX10001

**TB-PS-W1, Terminal Base for Power Supply (Required for each power supply)**
- P/N: SXWTBPSW110001

### Connectors

#### Dimensions drawing

![Dimensional drawing](image_url)