

PS-24V SpaceLogic™ Servers

EcoStruxure™ Building



Power supply

Introduction

SpaceLogic* PS-24V power supply module is designed to accommodate the specific power requirements of the SpaceLogic AS-P server and its connected Central IO modules.

* Formerly known as SmartX.

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 terminal base.

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 deliver power to one AS-P server and a number of Central IO modules calculated from the Power Budget table. If more Central IO modules are needed, another power supply can be added to the bus. The output power delivered by the previous power supply on the bus is interrupted in the terminal base of the next

PS-24V

power supply while also providing communication and ground pass-through.

Power Budget

| Module | DC input supply power |
|------------------|-----------------------|
| AS-P server | 10 W |
| DI-16 | 1.6 W |
| UI-16 | 1.8 W |
| RTD-DI-16 | 1.6 W |
| DO-FA-12(-H) | 1.8 W |
| DO-FC-8(-H) | 2.2 W |
| AO-8(-H) | 4.9 W |
| AO-V-8(-H) | 0.7 W |
| UI-8/DO-FC-4(-H) | 1.9 W |
| UI-8/AO-4 | 3.2 W |
| UI-8/AO-V-4(-H) | 1.0 W |

Modular and scalable system

The modules are part of a modular system that 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.

Polarity independent

The main AC/DC input (L/+ and N/-) is galvanically isolated from the DC output (to the I/O bus). This removes the risk of damage due to earth currents and permits the input power to be wired without concern for polarity matching.

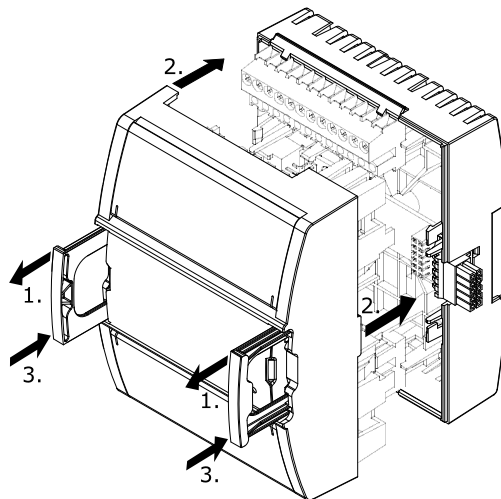
Overload protection

When a power supply module's load (total load of AS-P server, Central IO modules, and communication modules) exceeds its rating, the power supply module 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 convection cooling to occur.



Two-piece design

Auto-addressing

The auto-addressing feature helps eliminating the need for setting DIP switches or pressing commission buttons. Each module automatically knows its order in the chain and assigns itself accordingly – significantly reducing engineering and maintenance time.

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 SpaceLogic devices use built-in connectors for single row connectivity, side by side. If a panel size requires multiple rows, extension cords are available.

LED 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.

Specifications

| PS-24V | |
|-----------|----------|
| DC output | |
| Voltage | 24 VDC |
| Accuracy | +/-1 VDC |

PS-24V

Maximum power 30 W

AC input

Nominal voltage 24 VAC

Operating voltage range +/- 20 %

Frequency 50/60 Hz

Maximum current 2.5 A rms

Recommended transformer rating 60 VA or higher

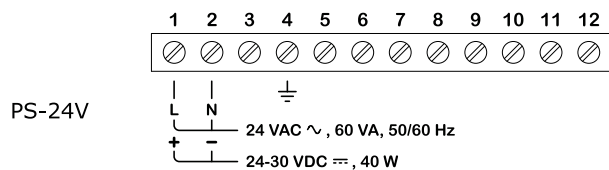
DC input

Nominal voltage 24 to 30 VDC

Operating voltage range 21 to 33 VDC

Maximum power consumption 40 W

Terminals



Environment

Ambient temperature, operating 0 to 50 °C (32 to 122 °F)

Ambient temperature, storage -20 to +70 °C (-4 to +158 °F)

Maximum humidity 95 % RH non-condensing

Material

Plastic flame rating UL94-5VB

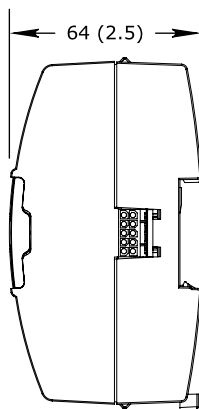
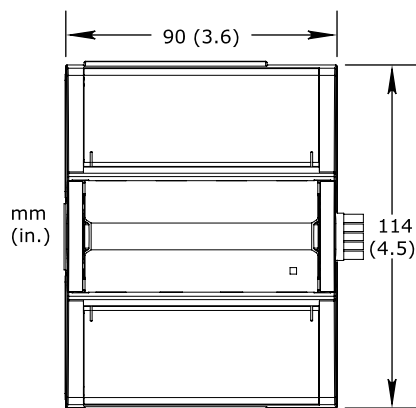
Enclosure PC/ABS

Ingress protection rating IP 20

Mechanical

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.)

PS-24V



| | |
|--|---|
| Weight including terminal base | 0.285 kg (0.63 lb) |
| Weight excluding terminal base | 0.186 kg (0.41 lb) |
| Agency compliances | |
| Emission | RCM; BS/EN 61000-6-3; BS/EN 50491-5-2; FCC Part 15, Sub-part B, Class B |
| Immunity | BS/EN 61000-6-2; BS/EN 50491-5-3 |
| Safety standards | BS/EN 60730-1; BS/EN 60730-2-11; BS/EN 50491-3; UL 916 C-UL US Listed |
| Product | BS/EN 50491-1 |
| Smoke control product safety | UL 864 |
| Access control system unit safety | UL 294 |
| Part numbers | |
| PS-24V Power Supply 24 VAC/VDC | SXWPS24VX10001 |
| TB-PS-W1, Terminal Base for Power Supply (Required for each power supply) | SXWTBPSW110001 |

PS-24V

Regulatory Notices



Federal Communications Commission

FCC Rules and Regulations CFR 47, Part 15, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



Regulatory Compliance Mark (RCM) - Australian Communications and Media Authority (ACMA)

This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.



UK Conformity Assessed

S.I. 2016/1091 - Electromagnetic Compatibility Regulations 2016

S.I. 2012/3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

S.I. 2013/3113 - Waste Electrical and Electronic Equipment Regulations 2013

This equipment complies with the rules, of the UK regulations, for governing the UKCA Marking for the United Kingdom specified in the above directive(s).



CE - Compliance to European Union (EU)

2014/30/EU Electromagnetic Compatibility Directive

2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

2015/863/EU amending Annex II to Directive 2011/65/EU

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s).



WEEE - Directive of the European Union (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.



UL 916 Listed products for the United States and Canada, Open Class Energy Management Equipment. UL file E80146.



UL 864 Listed products for the United States. 10th Edition Smoke Control System. UL file S5527.



UL 294 Recognized Component. UL file BP6537.

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