

S12700 Series Agile Switches Hardware Description

This document describes hardware components of the S12700, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces. You can find useful information about S12700 hardware components from this document.

About This Document

Using the Hardware Query Tool to Query Hardware Description Information

Using the Hardware Configuration Tool to Calculate Power Consumption of Equipment

Version Requirements for Components

> Cabinets

> Chassis

Power Supply Facilities

Power Module

2200 W DC Power Module

800 W AC Power Module

2200 W AC Power Module

3000 W AC Power Module

> Power Distribution Box

> Fan Module

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> Cables

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3000 W AC Power Module

Version Mapping

Table 6-15 Switch chassis and software versions matching a 3000 W AC power module

Model	Power Module Name	S12700 Chassis
PAC3KS54-CE	3000 W AC power module (Black)	Supported in V200R019C00 and later versions
PAC3KS54-CB	3000 W AC power module (Black)	Supported in V200R012C00 and later versions

NOTE:
PAC3KS54-CE has replaced PAC3KS54-CB since Jun, 2019.

Appearance

A 3000 W AC power module is 3 U in height.

Figure 6-9 3000 W AC power module (Black)

 Translation

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 NOTE

Do not insert the power cable locking strap into an air vent on the power module panel, as this will affect operations of the power module.

Functions

A 3000 W AC power module provides a maximum power of 3000 W for the chassis. [Table 6-16](#) describes the functions of a 3000 W AC power module.

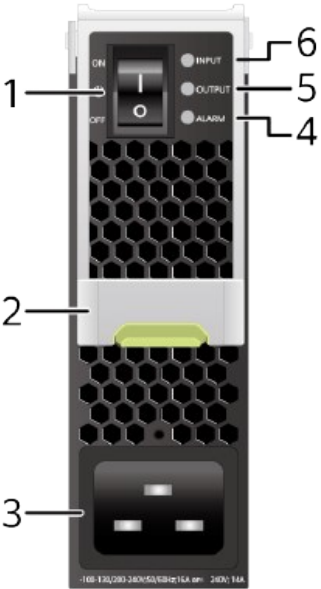
Table 6-16 Functions of a 3000 W AC power module

Function		Description
Input protection	Input overvoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input overvoltage, the power module can automatically start supplying power again.
	Input undervoltage protection	In this protection state, the power module is turned off and stops supplying power. When the system recovers from input undervoltage, the power module can automatically start supplying power again.
	Input overcurrent protection	In this protection state, the power module is turned off and stops supplying power. The power module cannot automatically start supplying power again and needs to be replaced.
Output protection	Output overvoltage protection	In this protection state: • If output overvoltage is caused by the power module itself, the power module stops supplying power. When the system recovers from output overvoltage, the power module cannot automatically start supplying power again. • If output overvoltage is caused by increase of the input voltage received from the external power source, the

Function		Description
		power module stops supplying power. When the system recovers from output overvoltage, the power module can automatically start supplying power again.
	Output overcurrent protection	In this protection state, the output current is limited to a certain value. When the system recovers from output overcurrent, the power module can automatically start supplying power again.
	Output short-circuit protection	In this protection state, the power module supplies power intermittently, and the output current is limited to a range. When the system recovers from output short-circuit, the power module can automatically start supplying power again.
Overtemperature protection		When the temperature of the power module exceeds a specified threshold, the power module stops supplying power. When the temperature falls into the normal range, the power module automatically resumes power supply.
Hot swapping		The power module is hot swappable.

Panel Description

Figure 6-10 Panel of a 3000 W AC power module (Black)



1. Power switch NOTE: - When the power switch is turned ON, the power module supplies power to the chassis. - When the power switch is turned OFF, the power	2. Ejector lever NOTE: Raise the ejector lever to release the power module from the slot, and lower the ejector lever to lock the power module in the slot.	3. Power socket
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module does not supply power to the chassis.		
4. ALARM indicator	5. OUTPUT indicator	6. INPUT indicator

Table 6-17 Indicators on a power module panel

Indicator	Color	Description
INPUT	Green	Steady on: The input power of the power module is in the normal range. Blinking: The power module is in an input undervoltage or input overvoltage condition. Off: The power module receives no input power.
OUTPUT	Green	Steady on: The output power of the power module is in the normal range. Off: The power module provides no output power.
ALARM	Red	Steady on: The power voltage is experiencing overtemperature, external short circuit, output overvoltage, output overcurrent, or a fan failure. Blinking: Communication between the power module and CMU has been interrupted. Off: The power module is working normally.

Specifications

Table 6-18 Technical specifications of a 3000 W AC power module

Item		Value
Dimensions (H x W x D)		130 mm x 41 mm x 417.4 mm (5.1 in. x 1.6 in. x 16.4 in.)
Weight		< 3.0 kg
AC input	Rated input voltage	220 V AC/110 V AC; 50/60 Hz
	Rated input voltage range	200 V AC to 240 V AC (220 V AC input)/100 V AC to 130 V AC (110 V AC input); 47 Hz to 63 Hz
	Maximum input voltage range	90 V AC to 290 V AC; 47 Hz to 63 Hz (The maximum output power reduces by a half when the input voltage is in the range of 90 V AC to 175 V AC.) The maximum current of the power cable used by the 3000 W AC power module is 16 A. When the 220 V input is used, the minimum voltage cannot be lower than 200 V. When the 110 V input is used, the minimum voltage cannot be lower than 100 V.
	Maximum input current	16 A

Item		Value
High-voltage DC input	Rated input voltage	240 V DC
	Rated input voltage range	190 V DC to 290 V DC
	Maximum input voltage range	14 A
Output	Maximum output current	56.1 A (220 V AC input)/28.1 A (110 V AC Input)
	Maximum output power	3000 W (220 V AC input or 240 V DC)/1500 W (110 V AC input)
Hot swapping		Supported
Environment specifications		- Operating temperature: 0°C to 45°C - Relative humidity: 5% RH to 95% RH (noncondensing) - Storage temperature: -40°C to +70°C (-40°F to +158°F)
Part number		PAC3KS54-CB: 02311XYE PAC3KS54-CE: 02312FFP

NOTE

When a PAC3KS54-CB or PAC3KS54-CE power module is used in the following chassis, its maximum output power is 2200 W:

- S12704 chassis running a version between V200R008C00 and V200R011C10
- S12708 chassis running a version between V200R005C00 and V200R011C10
- S12710 chassis running a version between V200R010C00 and V200R011C10
- S12712 chassis running a version between V200R005C00 and V200R011C10

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