

3 Power Supplies

NOTICE

- Do not use power modules of different power values in the same router.
- A router can use only supported power modules. Using unsupported power modules will bring unexpected risks.

- 3.1 Types of Power Supplies
- 3.2 HW-24-12AC8D (Adapter,0degC,40degC,100V,240V,12V/2A,C8 /2.1*5.5*9.5 H DC PLUG("L"),SABS/SASO)

3.1 Types of Power Supplies

Table 3-1 describes the types of power supplies supported by AR series routers. The actual power supplies applicable to a router vary depending on the product model.

Table 3-1 Types of power supplies

Power Supply Type	Description
Built-in power module	It is fixed in the chassis and has a power socket on the panel. Use a power cable to connect the power socket to a power source.
Power adapter	It is an external unit used to connect a router to a power source.
AC power module	It is installed in a power slot of a router. Two power modules can work in 1+1 redundancy mode. Use power cables to connect the power modules to a power source.

Power Supply Type	Description
AC PoE power module	It is installed in a power slot of a router. Two AC PoE power modules can work in 1+1 redundancy mode. Use power cables to connect the power modules to a power source. Then the router can supply power to attached PDs.

3.2 HW-24-12AC8D (Adapter,0degC,40degC,100V,240V,12V/2A,C8 / 2.1*5.5*9.5 H DC PLUG("L"),SABS/SASO)

Overview

Table 3-2 Basic information about the HW-24-12AC8D

Item	Details
Description	Adapter,0degC,40degC,100V,240V,12V/2A,C8 /2.1*5.5*9.5 H DC PLUG("L"),SABS/SASO
Part Number	02220493
Model	HW-24-12AC8D

Appearance

Figure 3-1 Appearance of the HW-24-12AC8D



Version Mapping

Table 3-3 Mappings between HW-24-12AC8D and product models

Product	Product Model	First Supported Version	Last Supported Version	Unsupported Version
AR300	AR303 (50010533)	V300R021C00	-	-
AR300	AR303W (50010534)	V300R021C00	-	-

Functions and Features

Table 3-4 Functions and features of the HW-24-12AC8D

Functions and Features	Description
Input overcurrent protection	In this protection state, the power adapter stops supplying power and cannot automatically resume power supply when the input current restores to the normal range.
Output current limiting protection	In this protection state, the power adapter supplies power intermittently. When the output current is limited within a range, the power adapter automatically resumes power supply.
Output overvoltage protection	In this protection state, the power adapter stops supplying power intermittently. When the output voltage restores to the normal range, the power adapter automatically resumes power supply.
Output short-circuit protection	In this protection state, the power adapter supplies power intermittently. When the short circuit is removed, the power adapter automatically resumes power supply.

Technical Specifications

Table 3-5 Technical specifications of the HW-24-12AC8D

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	27 mm x 88 mm x 50 mm (1.06 in. x 3.46 in. x 1.97 in.)
Weight without packaging [kg(lb)]	0.1 kg (0.22 lb)
Rated input voltage [V]	100 V AC to 240 V AC, 50 Hz/60 Hz
Input voltage range [V]	90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	0.8 A
Rated output voltage [V]	12 V DC
Rated output power [W]	24 W
Power dissipation Mode	Natural heat dissipation
Hot swapping	Not supported