APC AP4423 Automatic Transfer Switch (ATS) Specifications and Datasheet

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APC AP4423 Automatic Transfer Switch (ATS)

Overview

Presentation

The APC Rack Automatic Transfer Switch (ATS) is a high-availability switch that provides redundant power to connected equipment and has two input power cords, one for each AC source. The output configuration is (8) C13 and (1) C19 The Rack ATS supplies power to the connected load from a primary AC source. If that primary source becomes unavailable, the Rack ATS automatically transfers loads to the secondary source. The transfer time from one source to the other is seamless to the connected equipment, as the switching occurs safely between the two input sources regardless of any phase differences.

The units have built-in network connectivity, which allows for remote management through Web, SNMP, SHH, Telnet, or StruxureWare™ Data Center Expert. With multiple outlets, several devices can be plugged directly into the Rack ATS without the need for an additional Rack PDU. Current monitoring and alarms help prevent downtime to the equipment by providing aggregate current measurements and warnings when power consumption draws near the maximum rating of the Rack ATS. Built-in network and local interfaces allow for custom configuration settings for added flexibility.

Lead time: Usually in Stock

Specifications

General

- Provided Equipment Mounting Hardware
- Rack Mounting brackets
- Serial configuration cable

Physical

- **Color:** Black
- **Depth:** 9.29 in (23.6 cm)
- **Height:** 1.73 in (4.4 cm)
- **Product Weight:** 8.25 lb(US) (3.74 kg)
- **Width:** 17.01 in (43.2 cm)

Input

- **Input Frequency:** 50/60 Hz
- **Plug standard IEC:** 60320 C20
- **Max line current:** 20 A
- **Input current limits:** 20 A
- **Load Capacity 3700:** VA
- **Nominal Input Voltage:** 230 V

Output

- **Max current draw:** 16 A
- **Number of power sockets:** outlets 8 IEC 60320 C13
- **1 IEC:** 60320 C19
- **Protection Type:** Without a circuit breaker
- **Output voltage:** 230 V

Conformance

- **Product Certifications:**
    - CUL Listed

    - CE
    - UL Listed
- **Standards:**
    - EN 55022 Class A
    - FCC Part 15 class A

Environmental

- **Ambient Air Temperature for Operation:** 23…113 °F (-5…45 °C)
- **Relative Humidity:** 5…95 %
- **Operating altitude:** 0…10000 ft
- **Ambient Air Temperature for Storage:** -13…149 °F (-25…65 °C)
- **Storage Relative Humidity:** 5…95 %
- **Storage altitude:** 0…50000 ft (0.00…15240.00 m)

Ordering and shipping details

- **GTIN:** 00731304333425
- **Package weight(Lbs):** 12.15 lb(US) (5.51 kg)

Packing Units

- **Package:** 1 Height 4.49 in (11.4 cm)
- **Package:** 1 width 23.62 in (60 cm)
- **Package:** 1 Length 14.02 in (35.6 cm)

Offer Sustainability

- **Sustainable offer status:** Green Premium product
- **REACh Regulation:** REACh Declaration
- **EU RoHS:** Directive Compliant EU RoHS Declaration
- **Lead-free:** Yes
- **Mercury-free:** Yes
- **RoHS exemption information:** Yes
- **Take-back:** Take-back program available

Contractual warranty

- **Warranty:** 2 years repair or replace

Features

Here are some typical features you might find in an ATS:

- **Automatic Transfer:** The primary function of an ATS is to automatically transfer power sources when there is a loss or interruption of the primary power supply. It detects a power failure and switches to an alternate power source, such as a backup generator or an alternative utility feed.
- **Transition Time:** The transition time refers to the time it takes for the ATS to transfer power between the primary and secondary sources. It is usually very short to ensure a seamless transfer and minimize disruption to connected equipment.
- **Voltage Sensing:** The ATS monitors the voltage levels of the primary and secondary power sources to determine when to initiate a transfer. It ensures that the secondary power source is stable and within acceptable parameters before transferring the load.
- **Load Prioritization:** Some ATS models allow for load prioritization, which means you can assign certain circuits or equipment to receive power from a specific source. This feature can be useful when you have critical equipment that requires power from a reliable source.
- **Built-in Surge Protection:** Many ATS units incorporate surge protection mechanisms to safeguard connected devices from voltage spikes or surges that could occur during power transfer or fluctuations.
- **Monitoring and Control:** ATS units often provide monitoring and control capabilities. These can include status indicators, alarms, and remote monitoring options to keep track of the power transfer process and system health.
- **Safety Features:** ATS units may include safety features such as overcurrent protection, short circuit protection, and over-temperature protection to prevent damage to equipment and ensure safe operation.

Please note that these features are general and may not specifically apply to the APC AP4423 model. For accurate and detailed information about the features of this specific model, I recommend referring to the product documentation, contacting the manufacturer, or visiting the official APC website for the most up-to-date information.

FAQ's

What is the APC AP4423 Automatic Transfer Switch (ATS)?

The APC AP4423 Automatic Transfer Switch (ATS) is a high-availability switch that provides redundant power to connected equipment and has two input power cords, one for each AC source.

How does the APC AP4423 Automatic Transfer Switch (ATS) work?

The Rack ATS supplies power to the connected load from a primary AC source. If that primary source becomes unavailable, the Rack ATS automatically transfers loads to the secondary source. The transfer time from one source to the other is seamless to the connected equipment, as the switching occurs safely between the two input sources regardless of any phase differences.

What are the specifications of the APC AP4423 Automatic Transfer Switch (ATS)?

The specifications of the APC AP4423 Automatic Transfer Switch (ATS) include input frequency of 50/60 Hz, plug standard IEC 60320 C20, max line current of 20 A, load capacity of 3700 VA, nominal input voltage of 230 V, max current draw of 16 A, number of power sockets of 8 IEC 60320 C13 and 1 IEC 60320 C19, and output voltage of 230 V.

What are the environmental requirements for the APC AP4423 Automatic Transfer Switch (ATS)?

The ambient air temperature for operation is 23…113 °F (-5…45 °C), relative humidity is 5…95 %, and operating altitude is 0…10000 ft. The ambient air temperature for storage is -13…149 °F (-25…65 °C), storage relative humidity is 5…95 % and storage altitude is 0…50000 ft (0.00…15240.00 m).

What are some typical features of an ATS?

Some typical features of an ATS include automatic transfer, transition time, voltage sensing, load prioritization, built-in surge protection, monitoring and control, and safety features.

Does the APC AP4423 Automatic Transfer Switch (ATS) have built-in network connectivity?

Yes, the APC AP4423 Automatic Transfer Switch (ATS) has built-in network connectivity, which allows for remote management through Web, SNMP, SHH, Telnet, or StruxureWare™ Data Center Expert.

What is the warranty for the APC AP4423 Automatic Transfer Switch (ATS)?

The warranty for the APC AP4423 Automatic Transfer Switch (ATS) is 2 years for repair or replacement.

What is an Automatic Transfer Switch (ATS)?

An ATS is an electrical device that automatically switches the power source from the primary utility supply to a backup generator or an alternative power source in the event of a power outage.

What is an APC Automatic Transfer Switch (ATS)?

An APC Automatic Transfer Switch (ATS) is a device that automatically transfers power supply between two sources, such as utility power and a backup generator. It ensures seamless power transfer and protects critical equipment from power disruptions.

How does an APC ATS work?

An APC ATS continuously monitors the primary power source (utility power) and the secondary power source (backup generator). If the primary power source fails or becomes unstable, the ATS quickly switches the load to the secondary power source. Once the primary power source is restored, the ATS transfers the load back to the primary source.

Can an APC ATS be used in residential settings?

Yes, APC offers ATS models suitable for residential applications. These ATS units are designed to handle the power requirements of typical households and ensure uninterrupted power supply during outages.

What is the typical transfer time for an APC ATS?

The transfer time for an APC ATS depends on the specific model and configuration. Generally, APC ATS units offer transfer times in the range of milliseconds to a few seconds. The transfer time is designed to be minimal to maintain a continuous power supply.

Can an APC ATS be integrated with other APC power protection devices?

Yes, APC ATS units are designed to integrate seamlessly with other APC power protection devices, such as uninterruptible power supplies (UPS). This integration allows for enhanced power redundancy and increased protection for critical equipment.

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