



Fastlane[®] UL Listed Power Supply

Energy Efficiency for Fastlane Turnstiles

Fastlane UL Listed Power Supply provides localized power to Fastlane turnstiles while maintaining a high standard of environmental awareness.

Overview

The unit is designed for Fastlane optical turnstiles, and consists of a black mild steel enclosure housing up to four switched-mode power supply modules (UL File No. E333418). The power supply is available in one-, two-, or four-module units depending on the number of motorized pedestals in use. The correct quantity will be shipped with the turnstiles.

Connections to the power supply unit (PSU) can be via direct conduit using either the metric or imperial apertures or cable glands provided.

Design Methodology

Fastlane turnstiles utilize remotely located power supplies to provide insulation from hazardous voltages. The PSU must not be fitted within a Fastlane pedestal. The PSU is designed to employ 60 W 24 V modules for each barrier drive system, ensuring that each module provides power to only one barrier system. The power supply is part of the Fastlane design methodology and forms part of the turnstile CE marking assessments.



To Comply with UL

The unit must:

- Be wall-mounted with cable entry from the top of the unit.
- Be installed in a dry location, no exposure to liquid, vapor, or rain.
- Be connected one of two ways:
 - Permanently to the building wiring via a 16 A protection device which is readily accessible.
 - Via a power cord which must not be attached to any surface or run through walls, ceilings, or floors and positioned as close as possible to the socket outlet.
- Have the PE terminal connected to a non-fused Earth.

Technical Specifications

Operating Voltage:

100 - 240 V AC

Current:

5 A max

Dimensions:

Length: 12.8" (325 mm)

Width: 7.8" (200 mm)

Height: 5.3" (136 mm)

Frequency:

50 - 60 Hz

Connection to Fastlane:

Low voltage cables required to connect to Fastlane

Connection to CAT 5 Interface Board or

Fastlane CPU card

Output:

24 V DC (25.5 V @ 2.4 A Max) per module

Fuse:

5 amp time delay/ slow blow (UL recognized)

Operating Temperature Range:

14 °F - 104 °F (-10 °C - 40 °C)

Earth Connection:

Required (unfused)

Cabling Recommended:

1.5 m² cross sectional area for cable lengths of up to 50 ft (15 m)

Certifications:

UL 60950-1, 2nd edition

CSA C22.2 No. 60950-1-07, 2nd edition

Due to continuous improvements, specifications are subject to change without prior notice.



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