



PS-24B Series

24 & 28V AC Dual Voltage Camera Power Supplies

PS-244B: 4 Cameras

PS-248B: 8 Cameras

The PS-24B series provides a convenient means of integrating power and video transmission in a single device. Two models are available – the PS-244B for up to 4 cameras and the PS-248B for up to 8 cameras.



POWER

- Each Output Selectable 24 or 28V AC
- Self-Resetting Smart-Fuses
- Surge Suppression

Multi-camera power supplies avoid the need to tie up one electrical outlet per camera, and provide significant advantages over multiple plug-in transformers in safety, convenience, neatness and cost. Several unique features provide easier installation, greater reliability and unequalled flexibility in any multi-camera installation.

Each output can be selected as 24 or 28V AC. The 28V AC option is ideal for applications with cameras at the end of long cable runs where significant voltage drops can occur. The ability to select the voltage of each output individually provides a greatly enhanced flexibility to meet the requirements of any installation.

Outputs are protected by self-resetting *SmartFuses*. These react like a glass fuse but reset themselves when the surge has passed or the fault is removed, eliminating costly service calls to replace blown fuses. Built-in surge suppression protects your cameras from transients. A roomy metal can allows plenty of space for wiring and multiple knockouts are provided for easy installation.

Specifications

Input Voltage: 120V AC (220V models available)
Output Voltage: 24 or 28V AC selectable per output.
Total Power Available: 4 Amps at 24V AC
Each output fused at 1.85 Amps

VIDEO

- Range up to 2000ft (600m) with CAT5e and 1000ft (300m) with UTP cable
- Passive device. No power supply needed

The PS-244B provides 4 baluns for transmission of video signals over unshielded twisted pair cable. The PS-248B includes 8 baluns.

Due to the excellent balance provided by the baluns, the video signal will not affect or be affected by other signals, even when they are transmitted in contiguous pairs. You can transmit data, telephone signals or low voltage power using neighboring pairs without affecting video signal quality. Most of the electrical noise and RF interference which affect coaxial cables are eliminated.

Using twisted pairs will bring cost savings in several ways. Twisted pairs are less expensive than coaxial cable. It may also be possible to use previously installed telephone cables with unused pairs. The UTP CAT5E cable, widely used in computer local area networks (LANs), allows you to send signals from 4 cameras up to 2000 feet (600 meters). In addition to reduced cost, it is easier to achieve a neat and attractive installation compared to conventional CCTV installations with coaxial cable. In addition, splicing is much cheaper and faster compared to a properly-installed coaxial joint.

Specifications

Frequency Response: DC to 12 MHz
Insertion Losses: Max 0.5 dB at 5MHz
Common Mode Rejection: 60 dB from 15 KHz to 5 MHz
Impedance, coaxial side: 75 Ohms
Impedance, Balanced Side: 100 Ohms \pm 20%
Maximum Signal Voltage: 1V pp

