



# Cisco Aironet 1300 Power Injector Technical Specifications and Applications

## Cisco Aironet 1300 Power Injector Technical Specifications and Applications

### Understanding the AIR 1300-12.8V Power Requirements

When dealing with outdoor wireless deployments, the Cisco Aironet 1300 series power injector plays a crucial role in network stability. This ruggedized power solution supports DC input voltages ranging from 12-40V, making the 12.8V specification particularly interesting for mobile and renewable energy applications.

### Key Electrical Characteristics

Input voltage tolerance: ±10% (11.5V-44V DC)

Maximum current draw: 1.5A @ 12.8V

Overvoltage protection threshold: 45V DC

Reverse polarity protection: 60V DC withstand

### Real-World Deployment Scenarios

Imagine trying to power a remote surveillance camera in the Australian outback - where traditional AC power is as scarce as hen's teeth. The 12.8V specification becomes golden here, perfectly matching standard sealed lead-acid battery banks used in solar installations.

### Typical Power Sources

Automotive electrical systems (12V nominal)

Solar charge controllers

Marine battery systems

UPS backup units

### Installation Best Practices

While the specs claim support for 200m cable runs, real-world testing shows voltage drop becomes significant beyond 150m with 24AWG cable. Pro tip: Use 18AWG outdoor-rated cabling for runs exceeding 100 meters to maintain stable 12.8V delivery.

### Environmental Considerations

Operating temperature: -40°C to +60°C

IP67-rated weatherproof enclosure

UV-resistant polymer housing



# Cisco Aironet 1300 Power Injector Technical Specifications and Applications

## Troubleshooting Common Issues

Ever seen the power LED blinking like a confused firefly? That usually indicates voltage instability. When using 12.8V sources, ensure your power supply can handle sudden current spikes up to 2A during radio transmission peaks.

## Diagnostic Checklist

- Verify ground continuity in PoE circuit
- Check for voltage sag under load
- Inspect coaxial connectors for moisture ingress
- Confirm proper heat dissipation

For solar-powered installations, consider adding a 5W buffer to your panel rating - clouds and bird droppings aren't accounted for in spec sheets. Remember, in the world of outdoor networking, redundancy isn't just smart; it's survival.

Web: <https://www.sphoryzont.edu.pl>