IDPS-24-40-XT Hardware Installation Guide

Introduction

This document contains instructions for the installation of a Perle IDPS-24-40-XT industrial-grade power supply.

Package List

- One IDPS-24-40-XT power supply
- This guide

INPUT: 85–264 VAC or 120–370 VDC	
1 Input connections:	AC Live terminal or DC(+) Terminal
2	AC Neutral terminal or DC(-) Terminal)
3	DC OK (LED) Off – No power to the IDPS (check power connections and power source On – IDPS is receiving power
4	+V ADJ (26V-30V)
5	Gnd (terminal)
6 Output connections:	DC OUTPUT terminals (-v)(-v)(+v)(+v
7	Relay Terminals

Connecting AC or DC Power to the IDPS

1. Prior to connection, verify that power is off to the AC or DC circuit that you are going to attach to the AC/DC input power supply.
2. Strip all wires 5mm (3/16th inch).
3. Loosen the terminal screws for ⏚(Ground), N(eutral) and L(ive-line). Insert wire-leads of appropriate type, wire size and color-code for your country into each terminal.
4. Secure the wire-leads and tighten the terminals screws (0.4Nm - 0.5Nm torque).
5. Ensure that only insulated wire extends from the terminal connectors.
6. Turn on power at source.

Connecting DC Power to the IDPS

1. Prior to connection, ensure that the power is turned off at source.
2. Strip both wires 5mm (3/16th inch).
3. Loosen the terminal screws for +V and –V. Insert wire-leads into the power supply's DC OUT terminal connector positive (+) and negative (-) terminal connector.
4. Secure the wire-leads and tighten terminals screws(0.4Nm - 0.5Nm torque).
5. Ensure only insulated wire extends from the terminal connectors.
6. Connect the other end of the wire-leads to the INPUT DC terminal connectors on the end device.
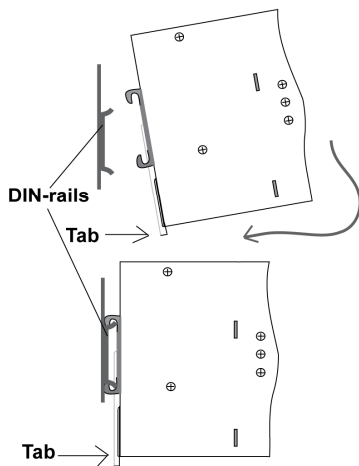
7. Turn on power at source.
8. Check that the DC OK LED is On.

Note: a Relay can be connected to (⌀) and (O) terminals for external monitoring of this power supply.
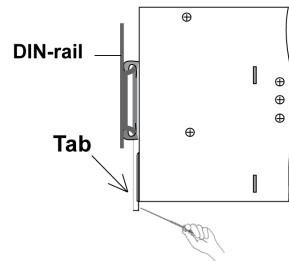
Mounting the IDPS to a DIN-rail

1. The DIN-rail clip is integrated on the back of the IDPS.
2. Position the IDPS such that the top of the integrated DIN-rail opening fits into the slot on the top of the DIN-rail.
3. Press the IDPS towards the DIN-rail until it is vertical to the DIN-rail and the bottom DIN-rail opening is positioned within the DIN-rail. Secure the IDPS to the DIN-rail by pressing upwards on the Tab at the bottom of the IDPS until you hear a click. The IDPS is now secured to the DIN-rail.
4. To release the IDPS from the DIN-rail, use a small flat edge screwdriver gently pry downwards on the Tab at the bottom of the IDPS until you hear a click. The IDPS can be removed from the DIN-rail.

To Mount

To release

DIN-rail

Tab

DIN-rails

Tab

Tab

Warnings

⚠ *Electrical Shock:* Any exposed wire leads from a power source can conduct harmful levels of electricity. Only insulated wire should extend from any terminal connectors

⚠ Power sources must be off prior to beginning the power connection steps.

⚠ Ensure that the voltage and current ratings of the intended end devices are appropriate for the IDPS power supply as indicated on the product label.

⚠ Ensure that the installation and electrical wiring of the equipment is performed by trained and qualified personnel and that the installation complies with all local and national electrical codes.

⚠ If this unit is to be installed in a location where the ambient temperature exceeds 50C, the case temperature may exceed safe levels. For this reason, this unit should be installed in a restricted access   location where access can only be gained by service personnel or users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken; and access is through the use of a tool or lock and key, or other means of security, and is controlled by the authority responsible for the location.