

Installation Solution for Integrated Power Supply



AI Overview

The installation of an Integrated Power Supply (IPS) involves careful site preparation, module assembly, electrical connections, safety checks, and commissioning to ensure reliable AC and DC power for signalling systems.

1. Pre-Installation Preparation

Site Selection: Install the IPS in a dust-free, well-ventilated area with stable flooring. Ensure the location meets the pre-commissioning checklist requirements for space, ventilation, and accessibility.

Inspection of Shipment: Check the packaging for transit damage. Inspect the front panel and internal components for loose or broken connections. Report any damage immediately.

Safety Precautions: Only qualified electrical technicians should perform installation. Remove metal objects (rings, watches) and ensure the AC supply is switched off. Use insulated tools and verify absence of voltage with a suitable voltmeter.

2. Module and Panel Installation

Panel Placement: Mount the IPS panels on a bottom channel with anti-vibration pads. Ensure proper alignment and secure fastening.

Module Assembly: The SMPS-based IPS typically includes FRBC (Float Rectifier cum Boost Charger) modules, Distribution Supervisory Control & Alarm (DSA) units, inverters, AVR, transformers, and metering sections. Install each module according to the manufacturer's schematic diagrams.

Battery Installation: Place batteries in a separate room. Use low-maintenance or VRLA cells as per specifications. Connect battery terminals carefully, ensuring correct polarity.

3. Electrical Connections

AC Input: Connect the 230V AC input to the designated terminals. Ensure proper earthing of the panel.

DC Output: Connect DC outputs to signalling circuits as per the interconnection wiring diagram. Verify all PCB connections are secure and in correct positions.

Fuses and Protection: Check all fuses and protective devices. Do not alter potentiometer or preset setting...

Article Content

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regulate incoming power supply to the correct voltage, current and frequency. Integrated Power Supply (IPS) system is one such system in which different integrated in one unit to p supplies required for

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A Pocket book on INTEGRATED POWER SUPPLY

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Business Standard

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Products — Integrated Power Systems

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Contact Us

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