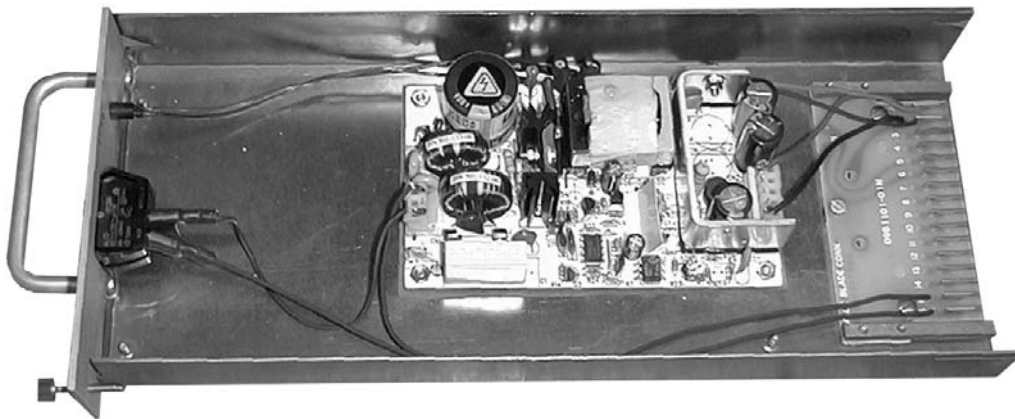


DIVISION OF CONOLOG CORP.

INSTRUCTION MANUAL

IP-35 POWER SUPPLY



DESCRIPTION: The IP-35 is a Regulated Switching Power Supplies for use within the INIVEN GEN 1 style chassis. The IP-35 is available with a wide range of AC input voltages: 85-264 VAC.

FEATURES:

- Front panel mounted LED which indicates status of output DC voltage.
- On/Off switch on front panel for ease of system operation.
- Wide range of input voltages.

SPECIFICATIONS:

Input Voltages Operating Ranges

115VAC 85VAC to 264VAC

Output Voltage: +12VDC \pm 20% @ 3.3 amps

Output Ripple: 1%

Efficiency: 70% at full load typical

Isolation: 1000VDC from input to output

Environmental Requirements: Temperature Range: 0 to +50 C Relative Humidity: 95% maximum, non-condensing at 40 C (104 F).

Physical: Weight: 2 lbs (1.134Kg) Dimensions: 1.5" (38mm) W, 5.25" (133mm) H, 13" (330mm) D

SAFETY:

Standard safety precautions must be followed at all times when installing, operating, servicing, and repairing this equipment. INIVEN/CONOLOG CORP. assumes no liability for failure to observe standard or specifically noted safety requirements or to use this equipment for purposes other than intended.

GROUNDING:

A suitable ground is required to reduce the hazard of shock. Refer to the enclosed module, chassis, and/or cabinet wiring diagram for ground connection locations.

ENVIRONMENT:

Operation of any electrical equipment in any area containing gases, fumes, wet, or damp is a potential safety hazard. Necessary precautions should be taken.

MANUAL:

Operators and maintenance personnel should read this manual before installing the equipment and placing it in service. Only properly trained personnel with proper tools and equipment should operate, maintain, repair, or service this equipment.

SHOCK:

Potentially dangerous electrical shock can occur whenever working on this product. Protective measures and safety procedures should be observed at all times.

NOTE:

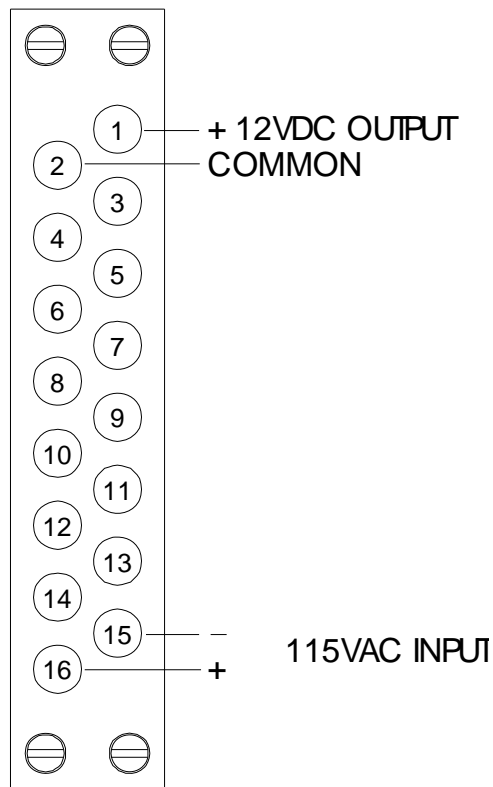
The IP-35 Power Supplies Contain **HIGH VOLTAGES**. Do not handle components with Power Applied to the Unit

THEORY OF OPERATION:

GENERAL: The IP-35 series of power supplies convert the rated input power into +12VDC

INPUT: The input voltage is applied to the power supply via the On/Off switch, S1. Overcurrent protection is provided by short circuit protection with automatic recovery.

EMI FILTER: The EMI filter meets FCC Class B, EN55022 B standards.



IP-35

Fig. 3. Terminal Block

INSTALLATION:

UNPACKING: This equipment may be supplied loose, mounted in an individual chassis ' stacked interconnected chassis, or as part of a rack or cabinet. Follow the procedure for the type of system supplied.

Loose and/or equipment mounted in an individual chassis will be packed in its own shipping carton. Inspect the carton for possible damage in transit. Open each carton carefully and remove the contents. Inspect the equipment for possible damage. Verify all items of value have been removed prior to discarding any packing material.

NOTE: It is suggested the carton be retained for possible onward shipment.

Interconnected chassis or equipment supplied in racks or cabinets will be supplied in special boxes, wood crates, or if shipped via air-ride van without any case. Inspect the crate or other packing for possible damage in transit. Carefully remove the equipment from the container and inspect it for possible damage. Verify all items of value have been removed from the crate prior to discarding any packing material and refer to the note above.

Should transit damage be found please notify INIVEN immediately.

MOUNTING: After unpacking follow the appropriate mounting procedure.

Loose module: (The following is for new installations - replacement of an existing module will have the terminal block already mounted. Each new unit is shipped with the terminal block plugged into the rear of the unit. There are also four 6-32 screws shipped with it to mount the terminal block to the chassis. Locate the desired position within the chassis for which the module is to be placed. Viewing the chassis from the front, the recommended arrangement is a power supply on the extreme left then followed by transmit and or receive modules working towards the right of the chassis.

Interconnected Chassis or equipment mounted on shipping rails is to be mounted similar to an individual chassis. When shipping rails are provided the equipment is to be placed near the desired location. Remove the screws holding the shipping rails and then remove the rails. Slide the equipment into the rack or cabinet and secure it with proper screws for the mating hardware being used. Tighten all screws.

Systems provided in a rack or cabinet from the factory must be secured to the floor or wall as required. Mounting hardware is not supplied due to the various surfaces and mounting methods.

CAUTION: EQUIPMENT MOUNTED IN SWING RACK TYPE CABINETS MUST BE SECURED TO THE MOUNTING SURFACE PRIOR TO OPENING THE SWING RACK TO PREVENT THE CABINET FROM FALLING.

VENTILATION: Proper ventilation is required for most electronic equipment. Enclosed cabinets or rooms where this equipment is mounted should be kept at temperatures within the limits of the equipment. Operation above these limits may affect reliability.

ELECTRICAL CONNECTIONS: User connections are made via the terminal blocks on the rear of the chassis. Each unit in the Gen 1 SERIES of equipment will contain these connections in the instruction manual for the specific individual module. On equipment supplied wired from the factory or on wired chassis and cabinets an "as supplied" drawing will be included with the equipment. External wiring should be in accordance with the "as supplied" drawing when supplied.

For safety reasons power on the leads to be connected to the unit are to be de-energized during installation.

Methods of making the wiring connections to the terminal blocks vary and based on local practice. It is suggested number 20 AWG size insulated wire, stripped portion tinned, be used. Approximately 1/4" of the insulation is to be removed and inserted in the terminal block.

- Module power and tone lines may be daisy chained should the application require.
- Tighten all connections and insure exposed wires do not touch each other or the chassis.

MAINTENANCE:

ALL SAFETY PROCEDURES ARE TO BE STRICTLY ADHERED TO AND ONLY QUALIFIED MAINTENANCE, OPERATORS, OR SERVICE PERSONNEL ARE TO PERFORM WORK ON THIS EQUIPMENT. LIFE THREATENING VOLTAGES AND CURRENTS ARE PRESENT WITHIN THIS EQUIPMENT. OBTAIN ALL REQUIRED APPROVALS PRIOR TO PLACING IN OR OUT OF SERVICE.

If factory assistance is required INIVEN has set up a toll free number (1-800-526-3984) for sales and service information. Should a module require repair, please call for an RMA number and have the model number(s) available.

WARRANTY AGREEMENT

We hereby certify that the INIVEN product line carries a warranty for any part which fails during normal operation or service for 12 Years. A defective part should be returned to the factory, shipping charges prepaid, for repair f.o.b. Somerville, New Jersey. In case INIVEN cannot promptly return the unit to you, it will endeavor to provide a loaner until the repair or replacement is returned to you. Any unauthorized repairs or modifications will void the warranty. This warranty is contingent upon the commercial availability of parts as purchased by INIVEN. However, in the event that failure is less than two years from the date of delivery of the product, INIVEN will accept full responsibility.

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