

PRECISION POWER

A PRECISION GROUP COMPANY



USER'S MANUAL FOR PRECISION POWER

Model Number: **PP36PB-12B**

TECHNICAL SPECIFICATION

| | |
|--|-----------------------------------|
| INPUT #1 (STANDARD VAC) | |
| NOMINAL VOLTAGE | 120VAC |
| VOLTAGE RANGE | 100VAC - 240VAC |
| FREQUENCY | 50/60Hz |
| MAX CURRENT LIMIT | 1.5A |
| INPUT INTERFACE | 3 PRONG US PLUG |
| SURGE RESISTANCE | 12KVA (IEC 61000-4-5 2005) |
| INPUT #2 (OPTIONAL VDC D-CELL ALKALINE BBU) | |
| NOMINAL VOLTAGE | 12VDC - 18VDC |
| INPUT INTERFACE | STEREO PLUG STYLE |
| OUTPUT | |
| NOMINAL VOLTAGE | 13.5VDC |
| CONTINUOUS POWER CAPACITY | 36 WATT |
| NOMINAL EFFICIENCY | 85% |
| INPUT INTERFACE | 2 PIN TERMINAL BLOCK |
| PHYSICAL | |
| | 1.92" X 2.75" X 5.48" (H X W X L) |
| ENVIRONMENTAL | |
| OPERATING TEMPERATURE | -40C to +60C @ < 24 Watt |
| STORAGE TEMPERATURE | -40C to +65C |

WARNINGS

Review the following important safety warnings to avoid bodily injury or damage to equipment during installation or operation of this device. Read ALL instructions before attempting to install or operate this device.



Adhere to all acceptable operating environment limitations as listed to prevent the risk of fire or electrical shock (see user specifications within User's Manual)



NO user-replaceable parts within this device. To avoid bodily injury, risk of fire or electrical shock do not attempt to remove cover of device.



Device is not designed for use with any alternate connection to AC power than as stated within user specifications of this user's manual.

NOTE: The reference to "PB36" within this User Manual refers to Precision Power Model PP36PB-12B and all package accessories as listed below.

CONTENTS OF PB36 PACKAGE

NOTE: Please verify all standard contents are accounted for upon receipt of PB36

STANDARD: (1) DC Power Supply;(3) Cable Ties; (1) 3- Pin Connector; (1) User's Manual

INTRODUCTION

PB36 is designed and intended for use as an indoor rated, compact, outlet mountable Vdc power supply for devices with max rating of 13.5Vdc 36Watts. Specifically for use with Indoor or Outdoor Rated 12Vdc Optical Network Terminals. The PB36 is designed to provide constant supply of 12-13.5Vdc output power during normal operating conditions. The PB36 can be installed and used with any standard 3 prong VAC outlet within the home, garage or basement. Please review approved operating temperature specifications as listed within User's Manual. PB36 offers an optional Precision Power D-Cell Battery Backup (BBU) input port. The optional Precision Power D-Cell BBU offers "standby by" VDC power to the PB36 when VAC power is lost or disconnected.

FCC NOTICE

This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications could void the authority granted by the FCC to operate this equipment.

NOTE: Precision Power reserves the right to change or correct the contents of this document and does not assume any responsibility for omissions or errors.

Authorized Partner



Core Telecom Systems

(888) 375-8826

sales@coretelecom.net

www.coretelecom.net

INSTALLATION PROCEDURE FOR THE PB36 (MODEL PP36PB-12B)

STEP 1: Verify all standard contents are accounted for after opening the package

STANDARD CONTENTS TO INCLUDE: (1) PB36 13.5Vdc 36Watt Switching Power Supply; (1) 2-Pin Phoenix Connector (3) Small Zip Ties; (1) User's Manual

STEP 2: Terminate pre-installed 2 conductor Vdc cable (NOT PROVIDED) to provided 2-Pin Phoenix Connector (SEE TABLE 1). Confirm each conductors jacket is stripped back ~ 1/4" and insert into Terminals 1 & 2 respectively (SEE TABLE 1). Using precision screw driver, tighten set screws located on top of 2-Pin Phoenix Connector until 2 conductors are secure.

*MANUFACTURER'S RECOMMENDED VDC CABLE - 2C, 16AWG STRANDED COPPER CABLE, INDOOR/OUTDOOR RATED JACKET **PRECISION REEL CABLE AND SUPPLY PN: PR2CT-2-10**

TABLE 1



TERMINAL 1: NEGATIVE (-)/COMMONLY BLACK WIRE
TERMINAL 2: POSITIVE (+)/COMMONLY RED WIRE

NOTES:

- 1) WIRING DIAGRAM DETAILED ON PRODUCT LABEL
- 2) RECOMMENDED 16AWG 2C, UP TO 100' FROM ONT
- 3) POSITIVE (+) AND NEGATIVE (-) POSITION DIAGRAMED ON NXGM WIRE SECUREMENT TAIL - VERIFY CABLE IS PROPERLY CONNECTED PRIOR TO CONNECTING 2-PIN PHOENIX CONNECTOR INTO NXGM

STEP 3: Terminate opposite end of pre-installed 2 conductor Vdc cable (NOT PROVIDED) to 12Vdc Customer Premise Equipment or Optical Network Terminal. *USE EQUIPMENT MANUFACTURER PROVIDED INSTALLATION MANUAL FOR PROPER WIRE TERMINATION.

STEP 4: Connect terminated 2-Pin Phoenix Connector to Vdc output port on the PB36 and secure 2C Vdc cable to the PB36 wire securement tail with provided zip ties.

STEP 5: Plug in the PB36 to standard 3-Prong U.S. Vac Outlet.

Note: (Optional) Use provided wall plate security screw to secure the PB36 to Vac Outlet

STEP 6: Confirm 12Vdc Customer Premise Equipment or Optical Network Terminal has power and is functioning according to Manufacturer Provided Installation Manual after Vdc Power is present.

TROUBLE SHOOTING REFERENCE

1. 12Vdc Customer Premise Equipment or Optical Network Terminal will not power on after installing the PB36

STEP 1: USING VDC VOLT METER, CONFIRM ~ 11.5 - 13.5 VDC IS PRESENT AT CUSTOMER PREMISE EQUIPMENT (CPE) OR OPTICAL NETWORK TERMINAL (ONT) WIRING TERMINAL.

STEP 2: CPE/ONT WIRING TERMINAL HAS 11.5 - 13.5 VDC - REFER TO CPE/ONT EQUIPMENT MANUFACTURER INSTALLATION AND TROUBLE SHOOTING MANUAL. PB36 IS WORKING PROPERLY.

STEP 3: CPE/ONT WIRING TERMINAL HAS LESS:

A: LESS THAN 11.5 VDC - ENSURE THE DISTANCE OF 2 CONDUCTOR CABLE FROM CPE/ONT TO THE PB36 IS NOT GREAT THAN 100 FT. NEXT, USING 12" TEST 2C VDC CABLE, FOLLOW STEPS 2, 4 AND 5 ABOVE AND TEST VDC VOLTAGE AT OPPOSITE END OF TERMINATED 2C VDC CABLE. IF VOLTAGE IS ~13.2 - 13.5 VDC, PLEASE FOLLOW STEPS 1 - 6 AS LISTED ABOVE ENSURING ALL 2C VDC CABLES ARE STRIPPED AND TERMINATED APPROPRIATELY AND SECURELY. ALSO, CONFIRM THERE IS NO DAMAGE TO THE 2C VDC CABLE. IF VOLTAGE IS STILL LESS THAN 11.5 VDC, ENSURE PROVIDED 2-PIN PHOENIX CONNECTOR IS TERMINATED AND CONNECTED PROPERLY AND IS NOT DAMAGED. NEXT, SWAP OUT NXGM POWER SUPPLY AND RETEST VDC VOLTAGE FROM TEST JUMPER.

B. 0 VDC - ENSURE THE TERMINATION "PLUG/CONNECTOR" AT THE CPE/ONT IS WIRED CORRECTLY AS DEFINED WITHIN THE CPE/ONT MANUFACTURER PROVIDED INSTALLATION MANUAL. NEXT TEST VDC VOLTAGE DIRECTLY OFF OF THE STRIPPED CONDUCTORS OF THE 2C VDC CABLE AT THE CPE/ONT (ENSURING THAT POSITIVE (+) AND NEGATIVE (-) LEADS FROM VOLT METER ARE CONTACTING THE RESPECTIVE POSITIVE (+) AND NEGATIVE (-) VDC CABLE CONDUCTORS). IF VOLTAGE IS STILL 0 VDC, USING 12" TEST 2C VDC CABLE, FOLLOW STEPS 2, 4 AND 5 ABOVE AND TEST VDC VOLTAGE AT OPPOSITE END OF TERMINATED 2C VDC CABLE. IF VOLTAGE IS ~13.2 - 13.5 VDC, PLEASE FOLLOW STEPS 1 - 6 AS LISTED ABOVE ENSURING ALL 2C VDC CABLES ARE STRIPPED AND TERMINATED APPROPRIATELY AND SECURELY. ALSO, CONFIRM THERE IS NO DAMAGE TO THE 2C VDC CABLE. IF VOLTAGE IS STILL 0 VDC, ENSURE PROVIDED 2-PIN PHOENIX CONNECTOR IS TERMINATED AND CONNECTED PROPERLY AND IS NOT DAMAGED. NEXT, SWAP OUT NXGM POWER SUPPLY AND RETEST VDC VOLTAGE FROM TEST JUMPER.

C. (-) VDC - ENSURE THAT POSITIVE (+) AND NEGATIVE (-) LEADS FROM VOLT METER ARE CONTACTING THE RESPECTIVE POSITIVE (+) AND NEGATIVE (-) VDC CABLE CONDUCTORS (COMMONLY RED - RED AND BLACK - BLACK). NEXT, ENSURE POSITIVE (+) AND NEGATIVE (-) CONDUCTORS ON 2C VDC CABLE ARE TERMINATED AT THE PB36 AND CPE/ONT CORRECTLY AS OUTLINED IN RESPECTIVE USER'S MANUAL.

