



USER'S MANUAL FOR **NXG-Pro**

(Next Generation Desktop Power Supply/UPS)

Model Number: **PS1236DT**

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.

This device is intended for indoor use only. To prevent the risk of fire or electrical shock, install in dry location free from damp or wet environment, or potentially damp or wet environment.

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)

Risk of fire or explosion if improper battery is installed and attempted to operate within this device. Device is rated and approved for use with standard sealed lead acid battery rated at 12Vdc 7Ah-8Ah. Follow User Manual instructions for proper installation of battery. Dispose of used batteries in accordance to battery manufacturer specifications.

NO user-replaceable parts within this device except the battery. Do not remove cover unless you are installing, replacing, or servicing the battery.

NOTE: The reference to "NXG-Pro" within this User Manual refers to PowerTec Solutions Model PS1230DT (Next Generation Desktop Power Supply/UPS) and all package accessories as listed below.

CONTENTS OF NXG-Pro PACKAGE

NOTE: Please verify all standard contents are accounted for upon receipt of NXG-Pro.

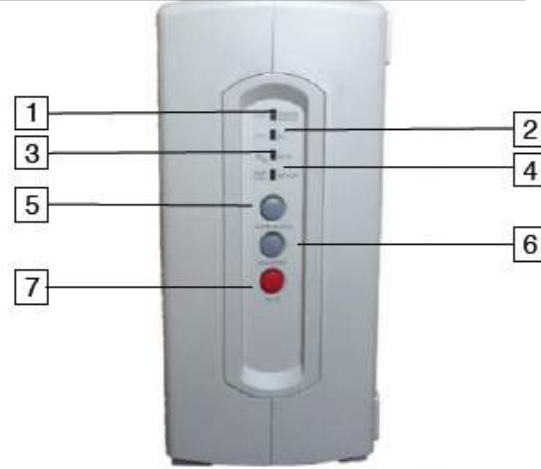
STANDARD: (1) Desktop Power Supply/UPS; (1) Cable Guide; (1) AC Power Cord; (3) Cable Ties; (1) 7-Pin Connector; (1) User's Manual; (1) Wall-mount installation template

Optional: (1) 3M Telemetry Wire (associated with Model PS1230DT-3M), or (1) 10M Telemetry Wire (associated with Model PS1230DT-10M).

NXG-Pro INTRODUCTION

NXG-Pro is designed and intended for use as Desktop or Wall-mount DC power supply and battery back up device for Indoor and Outdoor 12Vdc Optical Network Terminals (ONT) as well as wireless local loop applications. The NXG-Pro not only provides constant supply of DC power during normal operating conditions, but offers battery backup power in case of electrical power outage when paired with approved standby battery. NXG-Pro also provides customer facing Network Interface Reset Intelligence to provide integrated ONT reset technology designed to reduce Provider OPEX.

VISUAL INDICATORS AND CONTROL SWITCHES



VISUAL INDICATORS

1	System Status	Color-Green	NXG-Pro is receiving AC power load to operate under normal conditions.
2	DC	Color-Green	NXG-Pro is working off Standby Power.
3	Mute	Color-Yellow	Flashing-Audible Alarm silenced for 24hrs Solid-Audible Alarm silenced until manually enabled.
4	Battery	Color-Red	Service or replace battery, or battery is not installed in NXG-Pro

CONTROL SWITCHES

5	Alarm Silence	Disables Audible Alarm function. Press and release to disable Audible Alarm for 24 hours. Press and hold for 15 seconds to disable Audible Alarm indefinitely. Press and hold for another 15 seconds in order to re-enable Audible Alarm function.	
6	Cold Start	Allows NXG-Pro capability to restart and restore standby power with new battery or to use reserve standby power on existing battery when in AC line power outage for extended time.	
7	N.I.R.	Network Interface Reset (N.I.R.)-Allows for DC line power reset of Optical Network Terminal. Press and hold for 3 seconds to reset/reboot Optical Network Terminal.	

VISUAL AND AUDIBLE STATUS/ALARM SIGNALS

STATE	VISUAL INDICATOR	AUDIBLE INDICATOR	DESCRIPTION
Normal	System Status Indicator On		Operating under normal AC line power load and conditions, charges battery. Battery is connected and in good condition.
ON Battery	DC Indicator On		AC line power failure or AC cord disconnection. NXG-Pro is being supplied with battery power.
Replace Battery	Battery Indicator On	1/2 second audible indicator every 15 min	Replace faulty or end of life battery
Battery Missing	Battery Indicator On		NXG-Pro is operating on AC line power only without available standby power for outage scenario. When battery is removed from unit, battery indicator will illuminate after 15 sec.
Low Battery	DC Indicator Flashes	1/2 second audible indicator 4 times per minute	Battery has reached equal to or less than 45% remaining capacity on battery discharge.

Pass Through AC Output Plug

AC Input Power Cord Connector

DC Output/Telemetry Connector

Battery Door



INSTALLATION

DESKTOP USE:

A. Slide battery door down and located on rear of NXG-Pro and install battery. Intall red wire to red battery terminal and black wire to black battery terminal. Note: 90 degree red terminal connector prevents ability to miswire. Battery installation is optional. NXG-Pro will operate without battery as long as AC line power is present and connected.

B. Connect NXG-Pro power cord to NXG-Pro power cord connector point

C. Plug NXG-Pro power cord in to AC wall outlet

D. Connect 7-pin DC Power/Telemetry Wire in to DC Output/Telemetry Connector

INSTALLATION (CONT.)

WALL MOUNT USE:

A. Use provided wall mount template to install screws to the wall for keyhole mounting of the NXG-Pro. NOTE: Ensure that AC Cord provided will accommodate length needed from NXG-Pro AC cord power input connector to AC wall outlet.

B. Follow steps A-D as instructed in **Installation: Destop Use.**

C. Use provided keyhole mounting option for NXG-Pro to hang on previously installed screws.

BATTERY TYPE

Standard sealed lead acid battery rated at 12Vdc/7-8Ah.

BATTERY REPLACEMENT

As long as AC line power is available, NXG-Pro can resume operation while battery is replaced.

PROCEDURE:

1. Remove the battery cover from back of NXG-Pro
2. Slide battery out of NXG-Pro and disconnect both red and black connection wires from battery terminals and remove battery. NOTE: Follow battery manufacturer specifications for proper disposal of battery.
3. Install new battery by connecting red wire to red (positive) battery terminal and black wire to black (negative) terminal and slide battery into NXG-Pro battery compartment.
4. Replace battery cover to resume normal operation.

TECHNICAL SPECIFICATION

INPUT	
Voltage Range	100Vac-240Vac
Frequency Range	47-70Hz
Input Power Cord	NEMA 5-15/3-Prong Power Cord
Output Ground Reference	Earth Grounded
OUTPUT #1	
On Battery Output Voltage	12Vdc
Continuous Power Capacity	36W
Efficiency (at 75% Max Load)	> 75%
OUTPUT #2	
Voltage Range	100Vac-240Vac
Frequency Range	50-60Hz
Output Max Current	15A
Input Ground Reference	Earth Grounded
BATTERY	
Battery Type	SLA Battery
Number of Battery	12Vdc/7-8Ah x 1
Typical Recharge Time	< 20 hrs
Replaceable	Yes
SURGE PROTECTION AND FILTERING	
Lightning/Surge Protection	Yes (IEC 61000-4-5 2005 Level D)
MANAGEMENT	
Battery Auto-Charge	Yes
PHYSICAL	
Maximum Dimensions (LxWxD)	6.8 x 3.2 x 7.3 (in)
Weight (lb.)	7.16 (with battery)
ENVIRONMENT	
Operating Temperature	-20C - 45C (-4F - 113F) at full power
Operating Humidity	0-95% noncondensing within enclosure
Max Operating Elevation	10,000ft (3,000m)
Max Storage Elevation	50,000ft (15,000m)
Storage Temperature	-20 - 45C (-4F - 113F)

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: PowerTec Solutions International reserves the right to change or correct the contents of this document and does not assume any responsibility for omissions or errors.



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