PSI Vdc UPS Series
“The Revolution of Standby Power”
Power Any Vdc Device… Anytime, Anywhere

Li-36 Micro UPS
- World’s Smallest 36 Watt Vdc UPS
- World’s Only Scalable Standby UPS
- Desktop, Wall Mount, or Portable Standby UPS
- 10 Year Battery Design Life
- Up to 24 Hours of Standby Power
- Industries Highest Rated Surge Protection
- Fully Functional Audible/Visual Alarming

12Vdc 36 Watt Power Supply/Charger

Stackable Battery Packs - Stack 1 to 3 Battery Packs for up to 24 ours of Standby Time

Wall Mountable Back Plate

Manufacturer’s PN: PS36L-U7-2
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E: sales@powertecsolutions.net
**WARNING**

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 pack is installed and attempted to operate with this device. Device is rated and approved for use with PowerTec Solutions International Li Ion Battery Pack ONLY. Follow User Manual instructions for proper installation and removal of battery pack.
- NO user-replaceable parts within this device. Do not remove cover for any reason.

**NOTE:** The reference to “NXG-Vision” within this User Manual refers to PowerTec Solutions Models PS36L-P7 (Next Generation FTTx Micro UPS) and all package accessories as listed below.

**NOTE:** Please verify all standard contents are accounted for upon receipt of NXG-Vision. STANDARD: (1) Power Supply/Charger; (1) Li Ion Battery Pack; (1) AC Power Cord; (1) 7-Pin Connector; (1) User’s Manual; Optional: (1) Universal Wall Mount Enclosure w/ Cover.

**NXG-Vision INTRODUCTION**

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

**VISUAL INDICATORS AND CONTROL SWITCHES**

1. Battery Color-Red: Service or replace battery, or battery is not installed in NXG-Vision.
3. DC Color Green: NXG- Vision is receiving AC power load or battery is not installed.
4. System Status Color-Green: NXG-Vison is receiving AC power load to operate under normal conditions.
6. Cold Start Color Green: Allows NXG-Vision to cold start power off Battery Pack when AC line power is not present and new or replacement pack is connected, press and hold for 3 seconds.
7. N.I.R Reset Color Green: 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**

<table>
<thead>
<tr>
<th>STATE</th>
<th>VISUAL INDICATOR</th>
<th>AUDIBLE INDICATOR</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>System Status Indication On</td>
<td>Operating under normal AC line power load and conditions, charges battery. Battery is connected and in good condition.</td>
<td></td>
</tr>
<tr>
<td>ON Battery</td>
<td>DC Indicator On</td>
<td>AC line power failure or AC cord disconnection. NXG-Vision is being supplied with battery power.</td>
<td></td>
</tr>
<tr>
<td>Replace Battery</td>
<td>Battery Indicator On</td>
<td>1/2 second audible indicator every 15 min.</td>
<td>Replace faulty or end of life battery.</td>
</tr>
<tr>
<td>Battery Missing</td>
<td>Battery Indicator On</td>
<td>NXG-Vision 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 5 sec.</td>
<td></td>
</tr>
<tr>
<td>Low Battery</td>
<td>DC Indicator Flashes</td>
<td>1/2 second audible indicator 4 times per minute.</td>
<td>Battery has reached equal or less than 30% remaining capacity on battery discharge.</td>
</tr>
</tbody>
</table>

**CONNECTION POINTS FOR VAC (INPUT) AND VDC/TELEMERTRY (OUTPUT) (BOTTOM VIEW OF MODEL)**

- DC Output/Telemetry Connector
- AC Input Power Cord Connector

**MODEL | AUDIBLE ALARM | VISUAL ALARM | RELAY ALARM TO ONT**
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>PS36L-P7</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*RELAY ALARM FROM PS36L-P7 TO ONT (OPTICAL NETWORK TERMINAL) RELAYS BATTERY ALARMS: 1. LOW BATTERY; 2. ON BATTERY; 3. BATTERY MISSING; 4. REPLACE BATTERY*
**TECHNICAL SPECIFICATION**

**INPUT**
- Voltage Range: 100Vac - 240Vac
- Frequency Range: 50/60Hz
- Input Power Cord: NEMA 5-15 / 3 Prong Power Cord
- Input Ground Reference: Earth Grounded

**OUTPUT - ON AC**
- Output Voltage: 12Vdc (Nominal)
- Continuous Power Capacity: 3A (36WATT)

**OUTPUT - ON BATTERY**
- Output Voltage: 12Vdc (Nominal)
- Continuous Power Capacity: 3A (36WATT)

**BATTERY**
- Battery Type: Lithium Ion Battery Pack
- Design Life: 10 - 15 Years
- Battery Capacity: 14.8V 5200mAh
- Typical Recharge Time: <12 hrs
- Replaceable Pack: Yes

**SURGE PROTECTION AND FILTERING**
- Lightning Surge Protection: Yes IEC 61000-4-5 2005 LEVEL D

**MANAGEMENT**
- Battery Auto Charge: Yes
- Remote Battery Alarming: Optional
- Local Alarming (Audible/Visual): Yes
- Alarm Silence: 24 Hour Silence Yes
- Disable Indefinitely: Yes
- ONT Reset: Yes
- Cold Start: Yes

**PHYSICAL**
- Maximum Dimensions: 155mm × 89mm × 31mm
- Weight (lb): 1.76lb (with battery pack)

**ENVIRONMENT**
- Operating Temperature: 10°C - 49°C (14°F - 120.2°F) at full power
- Operating Humidity: 0-95% noncondensing within enclosure
- Max Operating Elevation: 10,000ft (3,000m)
- Storage Temperature: -30°C - 65°C (-22°F - 149°F)

**WARNING**
- Li Ion Battery Pack

**FCC NOTICE**

This equipment has been tested and found to comply with the limits 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 turning 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.