SETTING UP YOUR BATTERY BACKUP

A simple guide

How to Install: PSI Rechargeable Battery Units for your Gateway

What you Need:

- (2) PSI Li-75 Power Supplies
- (6) PS36L EX Batteries
- PSI BGW320 Adapter Cable
- Optional Battery Back Plate

Before you Begin:

Each Battery stack will provide up to 16 hours of backup power. One battery stack will be connected to the Gateway to provide automatic backup and will need to be replaced with the other standby stack as needed during an outage.

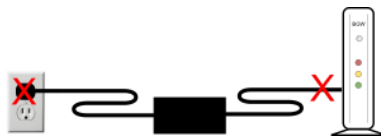Keep standby rechargeable battery stack connected to power source to maintain charge.

Please see the following page to build a "stack" or mount the batteries and power supply on an optional backplate.

OR

Power Cord ➤

◀ BGW Cord

Connect First Backup Battery:

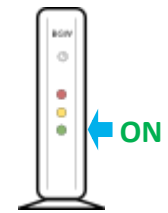| 1	2	3	4
Disconnect existing black power supply from the gateway and wall outlet	Stack three battery units and the power supply on the backplane	Connect the rechargeable battery stack to the Gateway using supplied power cord.	Make sure the power supply is **ON** and the Gateway is working

ON

Connect First Backup Battery:

Connect the other three rechargeable batteries and the power supply to the other backplane and plug into an electrical outlet (not controlled by a wall switch). Note: to get the best power available you should plug your battery stack int a wall receptacle.

How to Install: PSI Rechargeable Battery Units for your Gateway: Build your battery!

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Build a Stack:

1

Begin by unboxing the PS75. Slide the backplate off the back of the main power supply.

2

Slide the first battery onto the backplate. Be sure to remove any protective covers from the batter prior. See the instructions provided with the PS75 for instructions of how to slide the devices together.

3

Slide the second battery onto the first battery, and slide the third battery onto the second battery.

4

Next slide the power supply onto the third battery.

5

Disconnect existing black power supply from the gateway and wall outlet. Hook up the power cord, and the BTW cable to the power supply.

Or Build the Batteries on the Optional Back-

1

Begin by unboxing the PS75. Find the backplate indicated in the figure above. Slide the logo plate up, remove, and keep it for later.

2

Slide all three batteries onto the backplate as shown above.

3

Slide the battery plate cover onto and over two of the batteries.

4

Next slide the PS75 power supply over the remaining exposed battery

5

Make sure the power supply is loced into place. Hook up the power cord, and the BTW cable to the power supply.

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Important Information:

Each Battery stack will provide up to 16 hours of backup power. One battery stack will be connected to the Gateway to provide automatic backup and will need to be replaced with other standby stack as needed during an outage.

Keep standby rechargeable battery stack connected to power source to maintain charge.

Note: Battery backup unit will not power a cordless phone. I will only power a corded phone.

Check your Batteries:

Its important to check your batteries periodically to ensure full charge in case of a power outage. You batteries will automatically display the charge level when turned on. The power supply will give an audible warning if the battery is low or not charging. Batteries will charge while connected to the Gateway. If batteries are exhausted, replace the batteries with the standby units.

Replace Your Batteries:

1   2

Unplug battery from power supply and Gateway.

Unplug one of the fully charged standby batteries from its power supply and connect it to the power supply and the Gateway.

Recharge your Batteries:

Connect the old battery to the power supply from the previous standby battery. Make sure the power supply is still connected to the power outlet and the outlet has power.

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For PSI Rechargeable Battery Units:

If your phone does not have a dial tone during a power outage:

Check Your Gateway
And Rechargeable Batteries

1. Make sure corded phone is plugged into the Gateway

2. If Gateway does not have power, make sure

   - Gateway is plugged into rechargeable battery.

   - Rechargeable battery is turned ON

   - Rechargeable battery still has a charge. If not, replace it with one
     of the standby rechargeable batteries.

3. Make sure Gateway is connected to AT&T network box.

Need more help & troubleshooting with your:

PSI Rechargeable Battery Units: http://www.powertecsolutions.net

APPENDIX

OPERATION MANUAL INFORMATION

VISUAL INDICATORS AND CONTROL SWITCHES
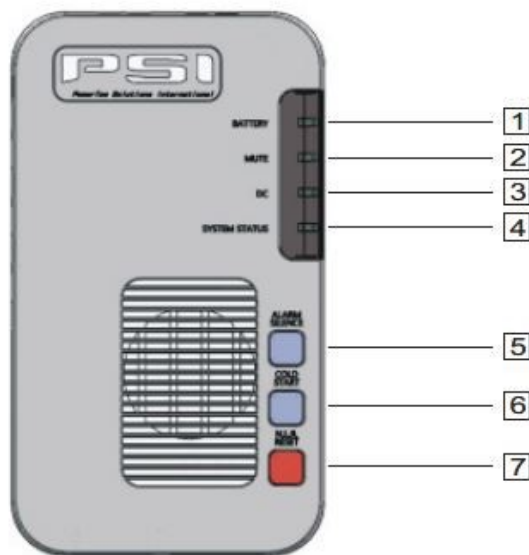
CONNECTION POINTS FOR VAC (INPUT) AND VDC/TELEMETRY (OUTPUT) (BOTTOM VIEW OF MODEL)

DC Output/Telemetry Connector

DC Output/ Connector

AC Input Power Cord Connector
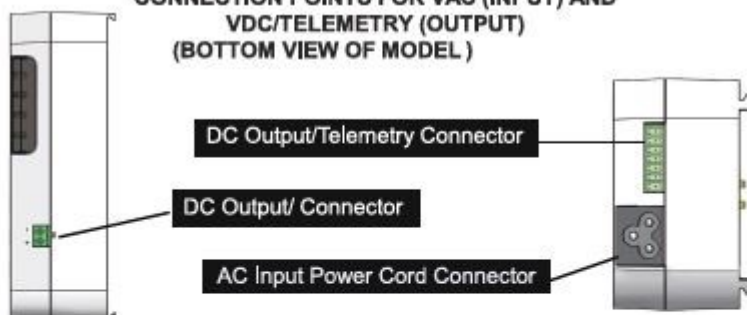
MODEL	AUDIBLE ALARM	VISUAL ALARM	RELAY ALARM TO ONT
PS75L-P7-12	YES	YES	YES

*RELAY ALARM FROM LI75-12 TO ONT (OPTICAL NETWORK TERMINAL) RELAYS BATTERY ALARMS: 1. LOW BATTERY; 2. ON BATTERY; 3. BATTERY MISSING; 4. REPLACE BATTERY

VISUAL INDICATORS

1	Battery	Color –Red	Service or replace battery, or battery is not installed in NXG–Vision.
2	Mute	Color-Yellow	Flashing –Audible Alarm silenced for 24hrs. Soid–Audible Alarm Silence Until manually enable.
3	DC	Color –Green	NXG – Vision is working off Standby Power.
4	System Status	Color- Green	NXG – Vision is Recieving AC power load to operate under normal conditions.

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 – 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		Allows for DC line power reset of optical Network terminal. Press and hold for 3 seconds to reset / reboot optical newwork terminal.

VISUALANDAUDIBLE STATUS/ALARM SIGNALS

STATE	VISUAL INDICATOR	AUDIBLE INDICATOR	DESCRIPTION
Normal	System Status Indication On		Operating undernormalAC linepowerload and conditions, chargesbattery. Battery is connected and ingood condition.
ON Battery	DC Indicator On		AC line power failure orAC cord disconnection. NXG–Vision isbeingsupplied withbattery power.
Replace Battery	Battery IndicatorOn	1/2 secondaudible indicator every15 min.	Replace faulty orend of lifebattery.
Battery Missing	Battery IndicatorOn		NXG – Vision is operating onAC linepoweronly without available stanbypower for outage scenario. Whenbattery isremoved from unit, battery indicator will illuminateafter5 sec.
Low Battery	DC Indicator Flashes	1/2 secondaudible indicator 4times perminute.	Battery hasreached equal to orless than 30% remaining capacityon battery discharge.

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TECHNICAL SPECIFICATION

INPUT	
Voltage Range	100Vac –240Vac
Frequency Range	50/60Hz
Input Power Cord	NEMA 5-15 /3-Prong Power Cord
Intput Ground Reference	Earth Grounded
OUTPUT–ON AC	
Output Voltage	12Vdc (Nominal)
Continuous Power Capacity	6.25A (75WATT)
OUTPUT–ON BATTERY	
Output Voltage	12Vdc (Nominal)
Continuous Power Capacity	6.25A (75WATT)
BATTERY	
Battery Type	Lithium Ion Battery Pack
Design Life	10 Years
Battery Capacity	14.8V/7800mAh
Typical Recharge Time	<20 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 (L×W×D)	155mm×89mm×52.5mm
Weight (lb.)	1.76lb (with battery pack)
ENVIRONMENT	
Operating Temperature	-10℃ - 49℃(14℉ - 120.2℉) at full power
Operating Humidity	0-95% noncondensing within enclosure
Max Operating Elevaion	10,000ft (3,000m)
Storage Temperature	-30℃ - 65℃(-22℉ -149℉)

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 eletrical 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: Please follow all State, Federal, and International Regulations when disposing or recycling Li Ion Battery Pack.

WARNINGS - Li Ion Battery Pack

⚠ DO NOT DISASSEMBLE BATTERY PACK

⚠ DO NOT DISPOSE OF IN FIRE

⚠ CHARGE ONLY WITH SPECIFIED CHARGER

⚠ DO NOT STORE IN TEMPERATURE OVER 65C

FIGURE 1

FIGURE 2

FIGURE 3
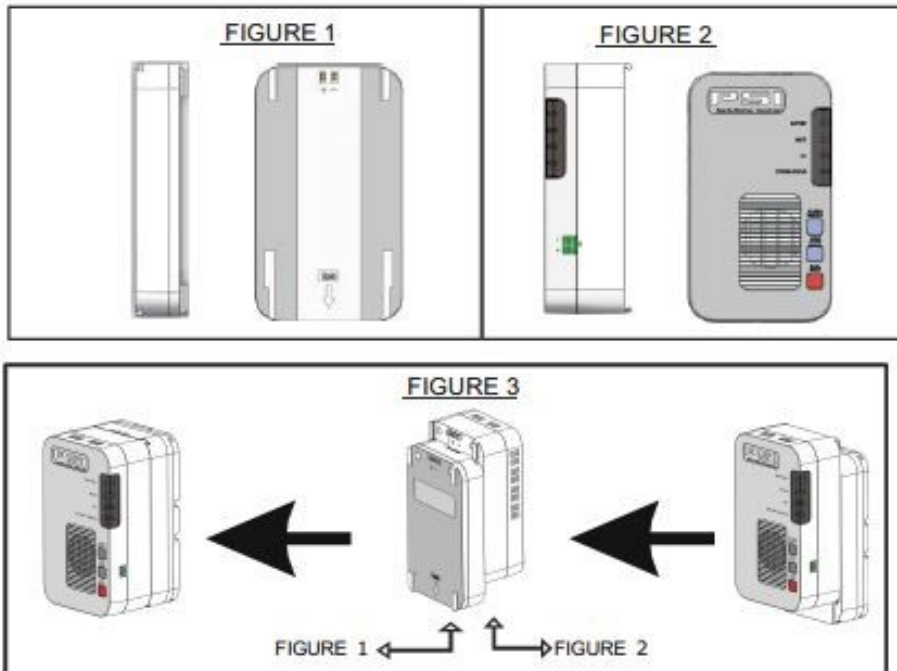
FIGURE 1 ← → FIGURE 2

INSTALLATION

A. Slide NXG-Vision Battery Pack (FIGURE 1) onto NXG-Vision Power Supply/Charger (FIGURE 2) until NXG-Vision Battery Pack becomes fully flush with NXG-Vision Power Supply/Charger. You should hear a "click" when NXG-Vision Battery Pack is fully seated.

B. Connect provided AC Power Cord to AC Input Connector on bottom of NXG- Vision Power Supply/Charger.

C. Connect 3 Prong AC Power Cord Plug End into standard 3 Prong AC Receptacle rated for NEMA 5-15 3 Prong AC Plug.

D. Verify "System Status" LED is "On" with Green illumination.

E. Connect NXG-Vision to ONT (Optical Network Terminal).

F. Ensure "System Status" LED is the only illuminated LED on NXG-Vision. If any additional LEDs are illuminated recheck NXG-Vision Battery Pack to make sure it is fully seated and ensure that all wiring from NXG-Vision to ONT is installed correctly as listed by ONT specific instructions.
G. can be overlapped al most two pieces battery
H. Plane use only

BATTERY REPLACEMENT

As long as AC line power is available, NXG-Vision can resume operation while battery is replaced.
PROCEDURE:
Remove the NXG-Vision Battery Pack by sliding off in opposite direction of installation(FIGURE 3) and follow "Installation Step A." above for installing new NXG-Vision Battery Pack.