



PowerTec Solutions International

WHO WE ARE

PowerTec Solutions International (PSI) is a privately held technology design and manufacturing company focused on providing custom DC Power, UPS, and other standby power solutions to compliment global FTTx, Wireline and Wireless applications.

OUR INNOVATION

- *World's smallest DC output UPS for Telecom, Wireless, Industrial, Hospitality and Enterprise Markets*
- *World's only VDC UPS with patented (Patent 10637264 & 10714954) stackable Li Ion battery packs for scalable standby capacity*
- *World's first universal all-in-one FTTx Enclosure to house ONT, UPS and Fiber Management*
- *Industry's highest rated frontend VAC surge protection for residential FTTx power and standby solutions*
- *Industry leading LIFEP04 Rackmount Smart Battery Systems to replace legacy sealed lead acid batteries, offering a 20 year design life and 1/3 the size of sealed lead acid*
- *Industry's first scalable voltage outdoor VDC UPS to offer 12-48VDC and | optional LIFEP04 or Sealed Lead Acid Standby Power*
- *Global leader in FTTx ONT Power Supply only options where battery backup is not required*



PowerTec Solutions International

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LI-36 MICRO UPS

#PS36SP-P7-12

OUR AWARD WINNING DESIGN NOW WITH SERIAL PORT OPTION

Input Voltage Range: 100VAC-240VAC

Frequency: 50/60Hz

Output Voltage (On VAC): 12VDC (Nominal)

Output Voltage (On Battery):
12VDC (Nominal)

Continuous Power Capacity: 3A(36WATT)

Battery Type: Lithium Ion Battery Pack

Design Life: 10-15 Years

Typical Recharge Time: < 12 hrs

Replaceable Pack: Yes

Lightning/Surge Protection: Yes

(IEC 61000-4-5 2005 LEVEL D,
GR1089 K21)

Battery Auto-Charge: Yes

Battery Self-Test: Optional

Telemetry Interface: Yes

Local Alarming (Audible/Visual): Yes

Alarm Silence: Yes

ONT Reset: Yes

Cold Start: Yes

Maximum Dimensions:

155mm×89mm×31mm

Weight (with one battery pack): 1.76lb

Operating Temperature:

-10° - 49° C (14° - 120.2° F) at full power

Storage Temperature: -30° - 65° C
(-22° -149° F)

Battery Temperature Range:

Discharge: -20° to 60°C (-4° to 140° F)

Charge: 0° to 45°C (32° to 113° F)

Battery Storage Temperature:-20° - 60°
(-4° to 140° F)



SERIAL PORT OPTION



Designed as the World's only scalable capacity VDC UPS, the Li-36 Micro UPS is designed to supply continuous commercial and standby power to 12VDC Customer Premise Equipment (CPE). The Li-36 Micro UPS is rated for use with all CPE devices 12VDC 36 Watts (3 Amps) or less and offers PSI Patented Stackable Battery technology to offer over 24 hours of backup, with up to 3 attachable battery packs. The Li-36 Micro UPS can be partnered throughout the home or small business to support one or multiple optical network terminals (ONT), optical network units (ONU), access points, wireless modems, routers, and embedded multimedia terminal adapters (eMTA). Providing hours of scalable battery backup during electrical outages, the Li-36 Micro UPS also offers an integrated Battery Management System (BMS), L-Ion Technology, PoE audible and visual alarming, user replaceable battery pack, remote signal alarming (telemetry), and 5 year warranty

APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
- Customer Premise Equipment
- VoIP Backup
- Cable Modems (eMTA)
- Portable Power
- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop
- Passive PoE Option

FEATURES

Desktop or Wall-Mountable

Versatile design allows for World's easiest wall-mountable solution or out-of-the-box desktop install

Scalable Capacity

Innovative stackable battery design allows user to connect up to three battery packs for increased capacity on demand for over 24 hours of battery backup on most CPE devices

Surge Protection - VAC and VDC

Providing the Industry's highest rated frontend surge protection, rated GR1089 enhanced and providing the Industry's only reverse surge protection on VDC output connection to offer a fully protected solution for any indoor deployment

Stationary or Portable Power

Install as stationary UPS or charge and use a portable battery power for off grid applications

User Replaceable/Stackable Battery Pack

Battery Pack can be easily added or replaced without network interruption

Network Interface Reset (N.I.R.) Control Function

Allows End User options for push button control to reset VDC power to ONT or CPE device saving costly truck rolls to reset power

Telemetry Interface

Battery Signal Alarming to ONT or CPE device: On Battery, Replace Battery, Battery Missing, Low Battery

Local Visual and Audible Alarming

Onsite Battery Alarming: On Battery, Low Battery, and Replace Battery

Extended Life Battery

10 Year Design Life Battery Pack

Battery Management System (BMS)

Integrated Battery Management System manages battery charge

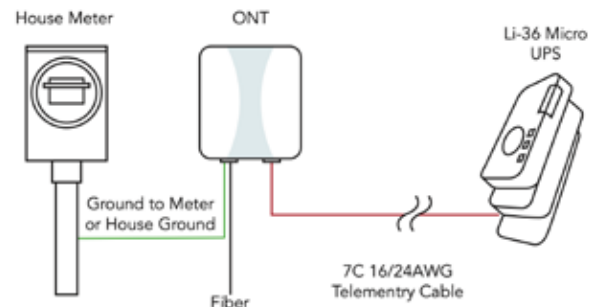


PowerTec Solutions International

Li-36 Micro UPS

Outdoor ONT - Indoor Li-36 Wall Mount

Step 1: Disconnect power supply from vac wall outlet and from customer premise equipment (i.e., wireless router, gateway, modem, camera, etc) per figure 1.



LI-36C MICRO UPS

#PS36L-EX-ECON

Input Voltage Range: 100VAC-240VAC	Lightning/Surge Protection: Yes	Weight (with one battery pack): 1.76 lb
Frequency: 50/60Hz	(IEC 61000-4-5 2005 LEVEL D)	Operating Temperature: -10° - 49° C
Output Voltage (On VAC): 12VDC	Battery Auto-Charge: Yes	(14° - 120.2° F) at full power
(Nominal)	Battery Self-Test: Optional	Storage Temperature: -30° - 65° C
Output Voltage (On Battery): 12VDC	Telemetry Interface: Yes	(-22° -149° F)
(Nominal)	Local Alarming (Audible/Visual): Yes	Battery Temperature Range:
Continuous Power Capacity: 3A (36WATT)	ONT Reset: Yes	Discharge: -20° to 60°C (-4° to
Battery Type: Lithium Ion Battery Pack	Cold Start: Yes	140° F)
Design Life: 10-15 Years	Maximum Dimensions:	Charge: 0° to 45°C (32° to 113° F
Typical Recharge Time: < 12 hrs	155mm×89mm× 31mm	Battery Storage Temperature:
Replaceable Pack: Yes		-20° - 60° (-4° to 140° F)

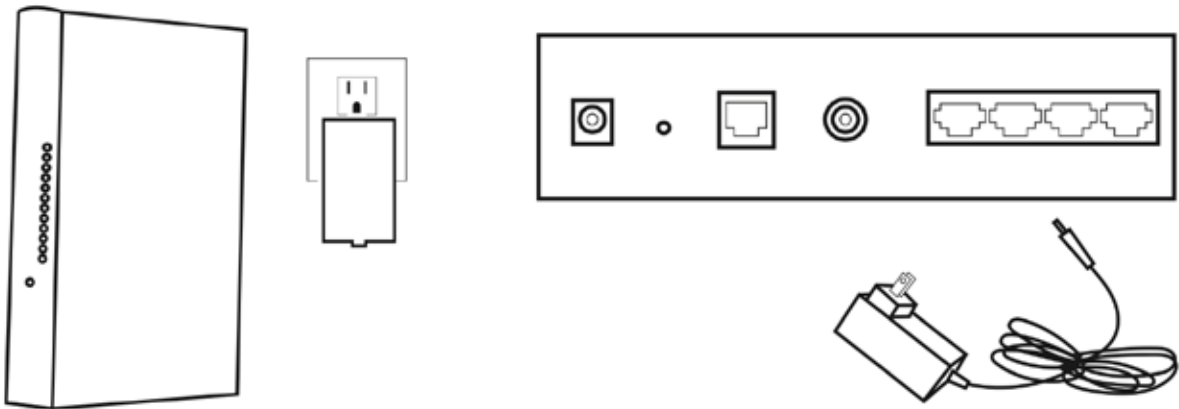
The Li-36C was designed as an economical version of our Li-36 model and to provide a competitive alternative to SLA (Sealed Lead Acid) Desktop UPS/BBU devices. The World's only scalable capacity VDC UPS, the Li-36C Micro UPS is designed to supply continuous commercial and standby power to 12VDC Customer Premise Equipment (CPE). The Li-36C Micro UPS is rated for use with all CPE devices 12VDC 36 Watts (3 Amps) or less and offers PSI Patented Stackable Battery technology to offer over 24 hours of backup, with up to 3 attachable battery packs. The Li-36C Micro UPS can be partnered throughout the home or small business to support one or multiple optical network terminals (ONT), optical network units (ONU), access points, wireless modems, routers, and embedded multimedia terminal adapters (eMTA). Designed for optimal performance and scalability, providing hours of scalable battery backup during electrical outages, the Li-36C Micro UPS also offers an integrated Battery Management System (BMS), L-Ion Technology, user replaceable battery pack. With a design life of 10+ years and a 5 year warranty, our Li-36C solution will improve your battery back up needs over SLA by a great margin at an affordable price.



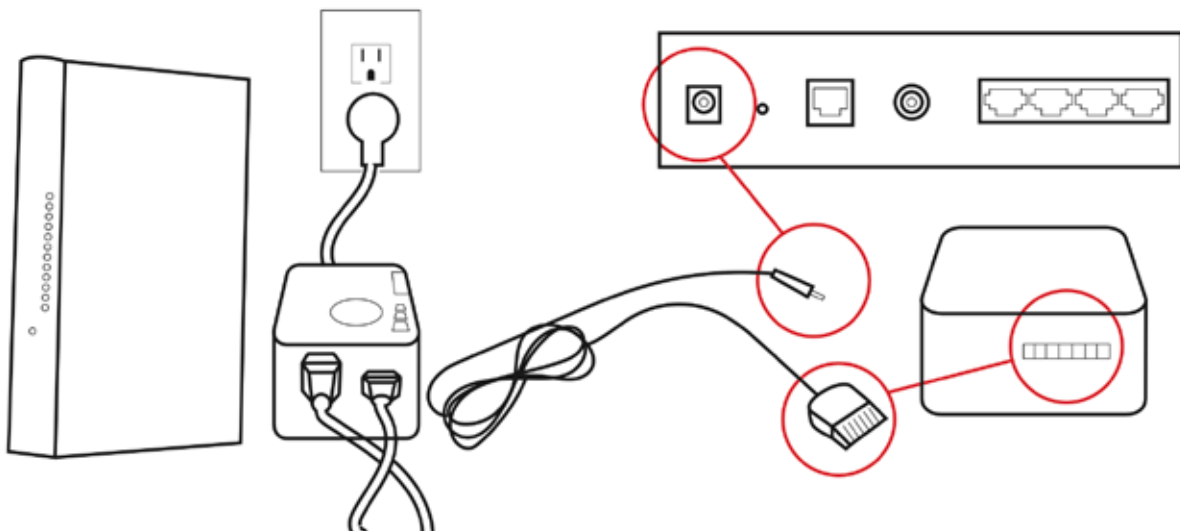
APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
- Customer Premise Equipment
- VoIP Backup
- Cable Modems (eMTA)
- Portable Power
- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop
- Passive PoE

Step 1: Disconnect power supply from vac wall outlet and from customer premise equipment (i.e., wireless router, gateway, modem, camera, etc) per figure 1.



Step 2: Connect Li-36 Micro UPS to customer premise equipment using provided UPS Vdc cable then connect provided vac power cord to Li-36 AC input and to vac wall outlet per figure 2.



LI-75 MICRO UPS

#PS75SP-P7-12 #PS75SP-P7-48

Input Voltage Range: 100VAC-240VAC

Frequency: 50/60Hz

Output Voltage (On VAC):

12VDC (Nominal) or 48VDC (Nominal)

Output Voltage (On Battery):

12VDC or 48VDC (Nominal)

Continuous Power Capacity: 6.25A

(12VDC/75W) 1.5A (48V/75W)

Battery Type: Lithium Ion Battery Pack

Design Life: 10-15 Years

Typical Recharge Time: <12 hrs

Replaceable Pack: Yes

Lightning/Surge Protection: Yes

IEC 61000-4-5 2005 LEVEL D

Battery Auto-Charge: Yes

Battery Self-Test: Optional

Telemetry Interface: Yes

Local Alarming (Audible/Visual): Yes

Alarm Silence: Yes

ONT Reset: Yes Cold Start: Yes

Maximum Dimensions:

155mm x 89mm x 55mm

Weight (with one battery pack): 1.76lb

Operating Temperature:

-10° - 49° C (14° - 120.2° F) at full power

Storage Temperature: -30° - 65° C

(-22° -149° F)

Battery Temperature Range:

Discharge: -20° to 60° C (-4° to 140° F)

Charge: 0° to 45° C (32° to 113° F)

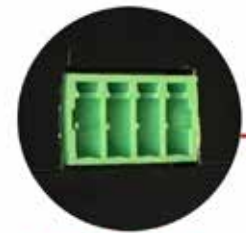
Battery Storage Temperature:

-20° to 60° C (-4° to 140° F)

The PSI Li-75 Micro UPS Series introduces the future of uninterruptible DC power supplies with it's patented stackable battery technology and World's smallest form factor Commercial/MDU UPS. Designed to supply continuous 12VDC or 48VDC power with stackable Li-ion Battery Pack technology, the PSI Li-75 Micro UPS Series offers the most versatile power solution and long life battery to compliment 1000's of stationary or portable applications and support hours of backup.

APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
- Customer Premise Equipment
- VoIP Backup
- Cable Modems (eMTA)
- Portable Power
- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop
- PoE Power Option



Serial Port Option



FEATURES

Extended Life Li-Ion Battery Pack

1/6 the size of competitor solution

More Usable Capacity than similar amp hour lead acid battery

Integrated Battery Management System (BMS) for highest level of operational efficiency

World's smallest stationary or portable power UPS

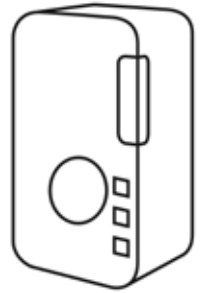
Innovative stackable battery packs for scalable backup time

User replaceable battery pack

Local Visual and Audible Battery

Alarming: Telemetry Alarming

Desktop or Wall-Mountable

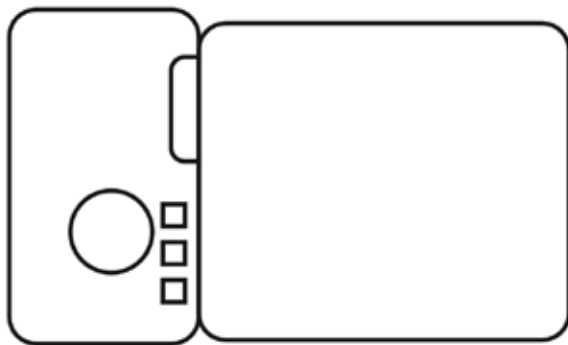


CORE SOLUTIONS

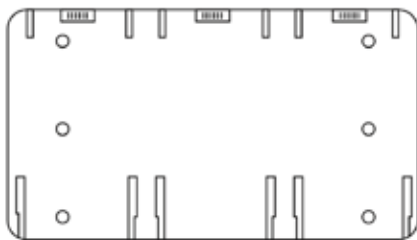
Micro UPS Series

- Service provider lease or maintenance contract
- Tiered level contract based on standby time required
- Residential and commercial package
- 12Vdc 75 Watt and 48V 75 Watt Models
- Stack up to 4 standard or extended capacity battery packs in parallel for 24+ Hours of Backup in most cases
- Custom Cabling for Standby Power to Multiple CPE Devices
- Modular use with PSI Micro Stack Wall Mountable back plate
- Vac and Vdc Surge Protection

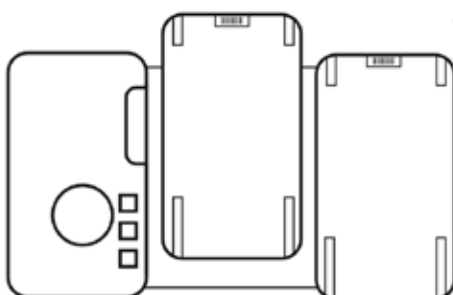
Li-75 Micro UPS



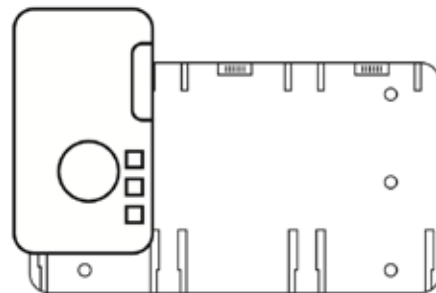
PSI Micro stack back plate



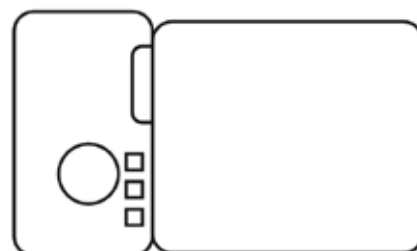
Scalable battery pack and PoE modules



Modular power supply integration



Customized UPS solutions - 5Cdc - 48Vdc up to 75 watts

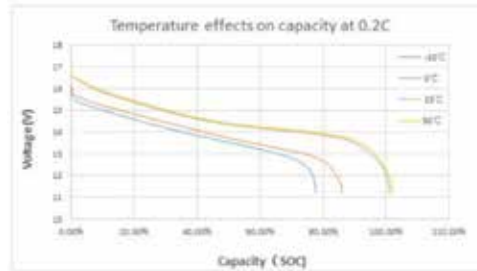
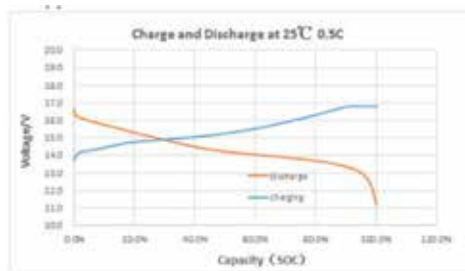


PS36L-EX Battery Pack

- Versatile design allows for World's easiest wall-mountable solution or out-of-the-box desktop install.
- Providing the Industry's only reverse surge protection on VDC output connection to offer a fully protected solution for any indoor deployment.
- Install as stationary UPS or charge and use portable battery power for off-grid applications.



Electrical/BMS Characteristics	
Cell Over Voltage Protection:	Over Voltage Protection (Max: 4.25 +/- 0.025V Over Charge Detection Delay: 0.5S ~ 1.5s Over Charge Release Voltage: 4.15 +/- 0.15 +/- 0.08V
Cell Over Discharge Protection:	Over Discharge Detection Voltage: 2.50 +/- 0.08V Over Discharge Detection Delay: 50 ~ 150 ms Over Discharge Release Voltage: 3.0V +/- 0.1V
Over Current Protection:	Over Current Detection Voltage: 0.1 +/- 0.025V Over Current Detection Circuit: 6 ~ 10 A Detection Delay Time: 5 ~ 15ms Release Condition: No Load
Short Circuit Protection:	Detection Condition: Hard short to battery pack. Detection Delay Tims: 100 to 600 microseconds Release Condition: Short removed.
Main Loop resistance:	RSS <= 40 milliohm
BMS Current Consumption:	40 microamps (Max)
Max Discharging Current:	<= 5A
Thermal Safety Switch	
Temperature Control Switch Part Number:	TB02-BB8D -65C (Thermal Safety Switch)
Device Temperature Resistance:	392F (200C)
Combustion Grade:	V-0
Thermal Cutoff Temperature:	149F +/- 9F (65C +/- 5C)
Reset Temperature:	118F +/- 18F (48C +/- 10C)
Temperature Fuse Protection	
Fuse Part Number:	F00093C
Fusing Temperature:	199.4F (93C)
Maximum Ambient Temp.	172.4F (78C)
Max Current:	10A, 250Vac
Recovery Temperature:	NONE, the fuse is permanently damaged once it is triggered.
Over Voltage Protection	
Reverse Stand-off Voltage:	22Vdc
Breakdown Voltage (VBR):	24.4Vdc (min), 26.9 (max)
Test Current:	1 mA
Max Clamping Voltage:	35.5Vdc
Max Peak Pulse Current:	11.27A
Max Reverse Leakage:	5 microamps



Item	Specification
Typical Capacity:	5200 mAhr
Minimum Capacity:	5100 mAhr
Nominal Voltage:	14.8 Vdc
Charge Modes:	Constant Current (CC), Constant Voltage (CV
Maximum Charge Voltage:	16.8V (+/- 0.5) V
Maximum Continuous Charge Current:	2600 mA
Charging Cut Off Current:	156 +/- 20 mA
Maximum Continuous Discharging Current:	5000 mA
Discharging Ending Voltage:	12Vdc
Recommended Charge and Discharge Temperatures:	Charge: 32F ~ 113F (0c~45C) Discharge: -4F ~ 140F (-20C ~ 60C)
Humidity Range:	0 to 90% RH (non-condensing)
Battery System Dimensions:	6.1" X 3.5" X 1.3" (Max 155mm X 89mm X 34mm)
Weight:	1.1lbs +/- 0.02 lbs.(505 +/- 10 g)
Cycle Life:	~ 300 cycles
Self-Discharge Rate:	< 5% per month.
Cell Type:	18650E2600
Battery Pack Configuration:	4S2P

Procedure for Recommended Storage and Maintenance of Lithium-Ion Battery Packs

1. Storage Conditions

1.1. Temperature:

1.1.1. Store batteries in a cool, dry place.

1.1.2. Optimal storage temperature is between 15°C and 25°C (59°F to 77°F).

1.1.3. Avoid storing in temperatures above 40°C (104°F) or below 0°C (32°F).

1.2. Humidity:

1.2.1. Keep batteries in a low-humidity environment.

1.2.2. Ideal relative humidity is between 20% and 60%.

1.3. Ventilation:

1.3.1. Ensure storage area is well-ventilated to prevent heat accumulation.

1.4. Isolation:

1.4.1. Store batteries away from flammable materials and direct sunlight.

2. Charge State

2.1. Storage Charge Level:

2.1.1. Store batteries at around 50% charge (3.7-3.8V per cell; 14.8-15.2 per pack).

2.1.2. Avoid storing fully charged (4.2V per cell or 16.8V per pack) or completely discharged (below 3.0V per cell or 12V per pack).

2.2. Periodic Maintenance:

2.2.1. Check the charge level every 6 months.

2.2.1.1. Typically, the PS36L-EX battery packs can last up to one year.

2.2.2. Recharge to 50% if the charge level drops below 20%.

3. Physical Handling

3.1. Protection:

3.1.1. Use protective casings or covers to prevent physical damage.

3.1.2. Avoid placing heavy objects on top of stored batteries.

3.2. Orientation:

3.2.1. Store batteries in a stable orientation to prevent them from falling or being knocked over.

3.2.2. Avoid stacking batteries directly on top of one another without protective layers in between.

4. Inspection and Maintenance

4.1. Regular Inspection:

4.1.1. Inspect batteries for signs of damage, leakage, or swelling every 3 months.

4.1.2. Remove and properly dispose of any damaged batteries immediately.

4.2. Cleaning:

4.2.1. Keep battery contacts clean and free of dust or debris.

4.2.2. Use a dry cloth to wipe contacts if necessary.

4.3. Battery Testing:

4.3.1. Test battery voltage and capacity periodically to ensure they are within safe operating ranges.

4.3.2. Use a multimeter or battery analyzer for accurate measurements.

5. Disposal

5.1. End of Life:

5.1.1. Follow local regulations for battery disposal.

5.1.2. Recycle batteries at designated recycling centers to prevent environmental harm.

5.2. Safe Handling:

5.2.1. Discharge batteries to around 50% before disposal if possible.

5.2.2. Use protective gloves and goggles when handling damaged or leaking batteries.

By following these procedures, you can ensure the safe storage and maintenance of lithium-ion batteries, prolonging their lifespan and reducing the risk of accidents or damage.

#PS18L-U2

Input Voltage Range: 100VAC-240 VAC

Frequency: 50/60Hz

Output Voltage (On VAC): 12VDC (Nominal)

Output Voltage (On Battery): 12VDC (Nominal)

Continuous Power Capacity: 1.5A (18WATT)

Battery Type: Lithium Ion Battery Pack

Design Life: 10-15 Years

Typical Recharge Time: < 10 hrs

Replaceable Pack: Yes

Lightning/Surge Protection: Yes

IEC 61000-4-5- 2005 Level D

Battery Auto-Charge: Yes

Battery Self-Test: Yes

Telemetry Interface: No

Local Alarming (Audible/Visual): Yes

Alarm Silence: Yes

ONT Reset: Yes

Cold Start: Yes

Maximum Dimensions: 6.4 x 1.69 x 1.96 (in.)

Weight (with one battery pack): 1.25 lb

Operating Temperature:

-15° - 50° C at full power

Storage Temperature:

-30° - 65° C (-22° - 149° F)

Battery Temperature Range:

Discharge: -20° to 60°C (-4° to

140° F)

Charge: 0° to 45°C (32° to 113° F)



Introducing the World's smallest DC UPS, the NXG-Vision Micro UPS is designed to supply continuous commercial and standby power to 12VDC Customer Premise Equipment (CPE). The NXG-Vision Micro UPS is rated for use with all CPE devices 12VDC 18 Watts (1.5 Amps) or less and offers a unique design for stationary in home CPE devices or portable battery backup for trouble shooting, test and turn up of CPE devices anywhere within the network. The NXG-Vision Micro UPS can be partnered throughout the home or small business to support one or multiple optical network terminals (ONT), optical network units (ONU), access points, wireless modems, routers, and embedded multi-media terminal adapters (eMTA). Designed for hours of battery backup during electrical outages, the NXG-Vision Micro UPS also offers an integrated Battery Management System (BMS), L-Ion Technology, audible and visual alarming, user replaceable battery pack, remote signal alarming (telemetry), and 5 year warranty.

APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
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- VoIP Backup
- Cable Modems (eMTA)
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- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop

FEATURES

World's Smallest DC UPS

Innovative design offers hours of battery backup in a footprint smaller than a dollar bill

Designed for use with Micro ONT's

Supports all Micro ONT Applications: Adtran 401/411, Calix GigaPoint 801/803 and iPhotonix 8201

Surge Protection - VAC and VDC

Providing the Industry's highest rated frontend surge protection, rated IEC 61000-4-5-2005 Level D and providing the Industry's only reverse surge protection on VDC output connection to offer a fully protected solution for any indoor deployment

Wall Mountable

Standard wall mount with optional PSI All-In-One Micro Enclosure or UPS Cradle

Stationary or Portable Power

Install as stationary UPS or charge and use a portable battery power for test and turn up of CPE Devices

User Replaceable/Stackable Battery Pack

Battery Pack can be easily added or replaced without network interruption

Network Interface Reset (N.I.R.) Control Function

Allows End User options for push button control to reset VDC power to ONT or CPE device, saving costly truck rolls to reset power

Local Visual and Audible Alarming

Onsite Battery Alarming: On Battery, Low Battery, and Replace Battery

Extended Life Battery

10 Year Design Life Battery Pack

Battery Management System (BMS)

Integrated Battery Management System manages battery charging, cell balancing and performs battery self test to protect and extend battery life



NXG-VISION MICRO UPS

PN:#PS18L-U7

Input Voltage Range: 100VAC-240 VAC	Replaceable Pack: Yes	Maximum Dimensions: 6.4 x 1.69 x 1.96 (in.)
Frequency: 50/60Hz	Lightning/Surge Protection: Yes	Weight: 1.25 lb
Output Voltage (On VAC): 12VDC (Nominal)	IEC 61000-4-5- 2005 Level D	Operating Temperature: -15° - 50° C at full power
Output Voltage (On Battery): 12VDC (Nominal)	Battery Auto-Charge: Yes	Storage Temperature: -30° - 65° C (-22° - 149° F)
Continuous Power Capacity: 1.5A (18WATT)	Battery Self-Test: Yes	Battery Temperature Range: Discharge: -20° to 60°C (-4° to 140° F) Charge: 0° to 45°C (32° to 113° F)
Battery Type: Lithium Ion Battery Pack	Telemetry Interface: Yes	Battery Storage Temperature:-20° - 60° (-4° to 140° F)
Design Life: 10-15 Years	Local Alarming (Audible/Visual): Yes	
Typical Recharge Time: < 10 hrs	Alarm Silence: Yes	
	ONT Reset: Yes	
	Cold Start: Yes	

Introducing the World's smallest VDC UPS, the NXG-Vision Micro UPS is designed to supply continuous commercial and standby power to 12VDC Customer Premise Equipment (CPE). The NXG-Vision Micro UPS is rated for use with all CPE devices 12VDC 18 Watts (1.5 Amps) or less and offers a unique design for stationary in home CPE devices or portable battery backup for trouble shooting, test and turn up of CPE devices anywhere within the network. The NXG-Vision Micro UPS can be partnered throughout the home or small business to support one or multiple optical network terminals (ONT), optical network units (ONU), access points, wireless modems, routers, and embedded multi-media terminal adapters (eMTA). Designed for hours of battery backup during electrical outages, the NXG-Vision Micro UPS also offers an integrated Battery Management System (BMS), L-Ion Technology, audible and visual alarming, user replaceable battery pack, remote signal alarming (telemetry), and 5 year warranty.



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- Wireless Local Loop

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Innovative design offers hours of battery backup in a footprint smaller than a dollar bill

Designed for use with Micro ONT's

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Surge Protection - VAC and VDC

Providing the Industry's highest rated frontend surge protection, rated to IEC 61000-4-5- 2005 Level D and providing the Industry's only reverse surge protection on VDC output connection to offer a fully protected solution for any indoor deployment

Wall Mountable

Easily wall mount with optional PSI All-In-One Micro Enclosure or UPS Cradle

Stationary or Portable Power

Install as stationary UPS or charge and use a portable battery power for test and turn up of CPE Devices

User Replaceable/Stackable Battery Pack

Battery Pack can be easily added or replaced without network interruption

Network Interface Reset (N.I.R.) Control Function

Allows End User options for push button control to reset VDC power to ONT or CPE device saving costly truck rolls to reset power

Local Visual and Audible Alarming

Onsite Battery Alarming: On Battery, Low Battery, and Replace Battery

Telemetry Interface

Battery Signal Alarming to ONT or CPE device: On Battery, Replace Battery, Battery Missing, Low Battery

Extended Life Battery

10 Year Design Life Battery Pack

Battery Management System (BMS)

Integrated Battery Management System manages battery charging, cell balancing and performs battery self test to protect and extend battery

ONT - OPTICAL NETWORK TERMINALS

#PS1236PB-L

ELIMINATES
REBOOT TIME

INPUT #1 (STANDARD VAC)

Nominal voltage: 120VAC

Voltage range: 100VAC - 240VAC

Frequency: 50/60Hz

Max current limit: 0.5A

Input interface: 3 - PRONG US PLUG

Surge resistance: IEC 61000-4-5 2005

OUTPUT

Nominal voltage: 12VDC /2.5A 3A maximum

Continuous power capacity: 30 WATT

36 Watt maximum

Nominal efficiency: 82% (AC); 85% (Battery)

Transfer time (Battery) at power loss 11mS

(11.4V) max @ full Load 3A

Input interface: 2 pin terminal block

Power time: Approx. 8 min for a 2.5A load.

Physical: 2.5" x 3" x 4.5" (H xW xL)

Weight: 9 oz (250 GRAM)

Environment: RoHs



Operating temperature: 0°C to +40°C

Storage temperature: -40°C to +65°C

Custom designed to deliver power to network devices such as Optical Network Terminals (ONT), the PS1236PB-L leads the charge as the most effective and efficient choice to protect and power residential Optical Network Terminals and, in addition, provides a very short term battery backup for brown out and short power outages to help prevent devices from incurring lengthy reboots. Designed for long life and clean power to one ONT, the PS1236PB-L ONT power supply also offer IEC 61000-4-5- 2005 Level D surge protection and 3- year warranty.

FEATURES

LED INDICATORS:

- a. Green/ slow blinking charging
- b. Green solid fully charged
- c. Green fast blinking  battery mode
- d. Red fast blinking low battery or bad battery
- e. Red slow blinking  overload or short-circuited

KEY BUTTON:

- a. AC ON: press on & cut off output, press off & output recovered
- b. BATTERY MODE: Cut off output when press on 2 seconds out-put recovered press on again for 2 seconds

BATTERY

5 sec brownout

7+ minute reboot time

16



Battery Eliminates Reboot Time

INTERNATIONAL VERSION



NXGM – MICRO ONT POWER SUPPLY

#PS1236PB-EX

Input Voltage Range: 100VAC - 240VAC	Battery Module (optional):
Frequency: 50/60Hz	Alpha FlexPoint BBPS
Output Voltage: 12VDC	Lightning/Surge Protection:
Continuous Power Capacity: 36 WATT	IEC 61000-4-5 2005 Level D
Output Interface: 3 Position Terminal	Operating Temperature: -20° to +60° C
Output Charging Voltage Control:	Storage Temperature: -40° to +65° C
5VDC (5mA DC max)	

Custom designed to deliver FTTx power, the NXGM leads the charge as the most effective and efficient choice to protect and power residential Optical Network Terminals (ONT). The NXGM model PS1236PB-EX offers the Industry's leading VAC and VDC surge protection and is designed to supply continuous commercial power to 12VDC Optical Network Terminals 36 watts (3A) or less. Hardened for outdoor use, the NXGM model PS1236PB-EX is the perfect solution for FTTx deployments where battery backup is not required for all installations, saving Service Providers thousands of dollars in ongoing battery repair/replacement and truck rolls. If needed, the NXGM model PS1236PB-EX, has integrated battery charger to be used with inline Alpha FlexPoint BBPS battery backup. Designed for long life and clean power to one or multiple Optical Network Terminals (ONT), the NXGM series ONT power supplies also offer 12KVA surge protection, ONT reset capabilities, and 3 year warranty.

APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
- Utility FTTx
- Customer Premise Equipment
- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop



FEATURES

World's Smallest FTTx ONT Power Supply

Innovative design offers FTTx's most efficient ONT Power solution

Designed for use with any residential ONT/ONU

Supports all residential ONT/ONU deployments.
12VDC 36 Watt potential output

Surge Protection - VAC and VDC

Providing the Industry's highest rated frontend surge protection, rated to IEC 61000-4-5- 2005 Level D and providing the Industry's only reverse surge protection on VDC output connection to offer a fully protected solution for any indoor deployment

Integrated Charge Controller

Partner with inline FTTx Battery Backup for optional "add-on" ONT backup power

Outdoor Rated

The NXGM "EX" is designed with hardened components and weather proof casing for outdoor installation

Network Interface Reset (N.I.R.) Control Function

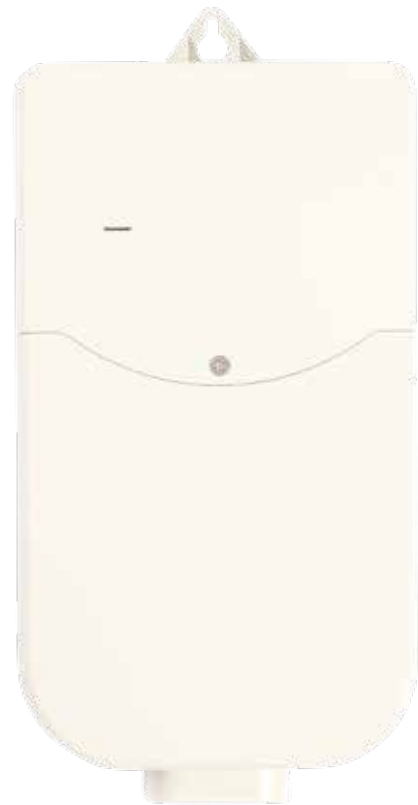
Allows End User options for push button control to reset VDC power to ONT or CPE

device saving costly truck rolls to reset power

Extended Life Warranty

The NXGM Series ONT Power Supplies offer standard 3 year replacement warranty

Battery Option 1: NXGM with direct 12VDC power to outdoor ont - no battery backup

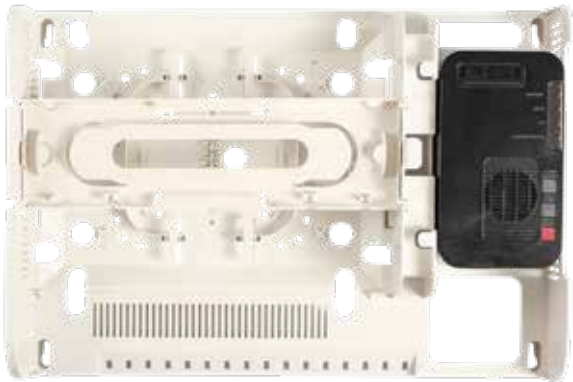


LI-36 ONT ENCLOSURE

#PS36UN

Fiber-to-the-home (FTTH, FTTP, FTTx)	Rear Entry Fiber Splice and Storage Tray	Control Access Window allows for Customer Control Options without removing cover
Utility FTTx	Primary Storage and Splice Tray rest behind ONT placement for additional security and efficiency in fiber management	Slack Storage Tray
Customer Premise Equipment		
Multi-Dwelling Unit (MDU)	Multiple Fiber/Cable Entry/Exit Options	Allows for additional fiber storage and is movable to allow for Universal fit for nearly all Indoor ONT Models
Single Family Unit (SFU)	Built for clean and efficient install with multiple options for fiber/cable management	
Wireless Local Loop		Dimensions (H x W x D)
"All-in-One" FTTx Enclosure	Securely Mount to any Wall	11.5" x 16.75 x 3.5"
Innovative "All-in-One" design offers wall mountable FTTx enclosure to house most indoor ONT models, PSI Micro UPS and all Fiber/Cable management	Under 8lbs fully loaded with ONT, Micro UPS and cabling	(292mm x 425mm x 89mm)
	Ease of Access to Micro UPS Control Functions	

Designed specifically for partnering with the Calix GigaCenter (844/854) ONT, the Li-36 ONT Enclosure offers a complete solution for housing ONT, Li-36 Micro UPS, and multiple Fiber/Cable Management options. The Li-36 ONT Enclosure can be fully enclosed over electrical outlet with secure cover to provide full protection from accidental interruption at the customer premise. This solution offers the perfect deployment for high churn MDU, SBU and College Campus installation allowing long term security and stability of Service Provider assets. Also includes, fiber splice tray, multiple slack storage options, control access window for customer control options.



APPLICATIONS

- Fiber-to-the-home (FTTH, FTTP, FTTx)
- Customer Premise Equipment
- VoIP Backup
- Cable Modems (eMTA)
- Portable Power
- Multi-Dwelling Unit (MDU)
- Single Family Unit (SFU)
- Wireless Local Loop

FEATURES

"All-in-One" FTTx Enclosure

Innovative "All-in-One" design offers wall mountable FTTX enclosure to house most indoor ONT models, PSI Micro UPS and all Fiber/Cable management

Rear Entry Fiber Splice and Storage Tray

Primary Storage and Splice Tray rest behind ONT placement for additional security and efficiency in fiber management

Multiple Fiber/Cable Entry/Exit Options

Built for clean and efficient install with multiple options for fiber/cable management
Stationary or Portable Power
Install as stationary UPS or charge and use a portable battery power for off grid applications

Securely Mount to any Wall

Under 8lbs fully loaded with ONT, Micro UPS and cabling

Ease of Access to Micro UPS Control Functions

Control Access Window allows for Customer Control Options without removing cover

Slack Storage Tray

Allows for additional fiber storage and is movable to allow for Universal fit for nearly all Indoor ONT Models

Dimensions (H x W x D)

11.5" x 16.75 x 3.5" (292mm x 425mm x 89mm)

UNIVERSAL ALL-IN-ONE ONT ENCLOSURE

#PS18UN

Fiber-to-the-home (FTTH, FTTP, FTTx)

Utility FTTx

Customer Premise Equipment

Multi-Dwelling Unit (MDU)

Single Family Unit (SFU)

Wireless Local Loop

World's Smallest "All-in-One"
FTTx Enclosure

Innovative "All-in-One" design offers
FTTx's first wall mountable enclosure to
house most indoor ONT models, PSI
Micro UPS and all Fiber/Cable management

Fiber Splice Tray

Attachable, Vertical Fiber Tray
for optional pig-tail splicing

Multiple Fiber/Cable Entry/Exit Options

Built for clean and efficient install
with multiple options for fiber/cable
management securely mount to any wall

Under 5lbs fully loaded with ONT,
Micro UPS and cabling

Ease of Access to Micro UPS
Control Functions

Control Access Window allows for customer
control options without removing cover

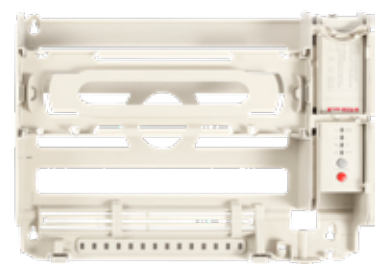
Slack Storage Tray

Allows for additional fiber storage and is mov-
able to allow for Universal fit for nearly all Indoor
ONT Models

Dimensions (H x W x D)

9.7" x 13.7" x 3" (247mm x 347mm x
75mm)
(292mm x 425mm x 89mm)

The Innovative PSI Universal Enclosure offers the World's most versatile All-In-One Solution for housing various Manufacturers' ONT's, Fiber/Cable Management, ONT Power Supply or optional PSI NXG-Vision Micro UPS. The PSI Universal Enclosure unique design provides a movable slack storage tray allowing universal fit for nearly all indoor ONT Models, including Calix 716-I, Zhone 24xx, Alcatel 240-I, Adtran 324/424, and iPhotonix iVolve. Also includes, vertical fiber splice tray, multiple entry and exit Fiber/Cable management and securement options, control access window for customer control options without removing cover and easy install cover with optional company logo.



PSI POE Passive Injector (Optional Splitter)

#POE-INJ-1G/POE-INJ-1GM (Module version)

Applications

- **IP Cameras:** Provides power and data to surveillance cameras.
- **Wireless Access Points:** Powers access points for wireless network coverage.
- **Routers and Gateways:** For customer service backup during outages with PS75SP.
- **VoIP Phones:** Ensures stable power supply to VoIP phones for clear communication.
- **Non-PoE Devices:** With the optional PoE splitter, power non-PoE devices requiring 12V DC.

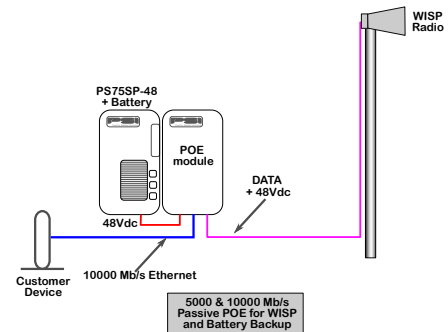
Key Features

- **High-Speed Data Transfer:** Supports data speeds up to 1Gb/s, ensuring efficient and fast network performance. (5Gb/s and 10Gb/s coming soon.)
- **Plug-and-Play Installation:** Easy setup.
- **Cost-Effective:** Reduces the need for running power and data lines to devices
- **Versatile Use:** Compatible with a wide range of PoE and non-PoE devices.
- **Compact Design:** Sleek and compact, it fits seamlessly into any network setup.
- **Back Up Power:** Designed to interface to the PS75SP-P7-48 Micro UPS.
- **Mounting:** Modular version mountable on PSI backplates, or separate standalone.

Technical Specifications

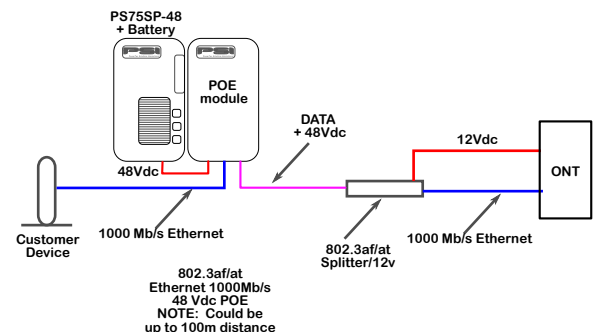
Passive PoE Injector

- Data Rate: 10/100/1000 Mbps
 - Input Voltage: 44-57 V DC
 - Output Voltage: Passive PoE (same as input voltage)
 - Connector Type: RJ45 (Input and Output)
 - Power Pin Assignment: 1/2 (+), 3/6 (-)
 - Operating Temperature: -10°C to 60°C (14°F to 140°F)
 - Storage Temperature: -20°C to 70°C (-4°F to 158°F)
 - Humidity: 10% to 90% non-condensing
 - Dimensions: 90mmx55mmx20mm(LxWxH) or
 - Weight: < 1 lbs (xx g)
- Optional PoE Splitter



Optional PoE Splitter

- Data Rate: 10/100/1000 Mbps
- Input Voltage: 44-57 V DC
- Output Voltage: 12 V DC
- Output Current: 1 A
- Output Connector: 5.5mm X 2.5mm
- Power Pin Assignments: (+)1, 2 and (-)3,8 or (+)4,5 and (-)7,8
- Connector Type: RJ45 (Input), DC Jack (Output)
- Power Pin Assignment: 4/5 (+), 7/8 (-)
- Operating Temperature: -10°C to 60°C (14°F to 140°F)
- Weight: <1lb
- Storage Temperature: -20°C to 70°C (-4°F to 158°F)
- Humidity: 10% to 90% non-condensing
- Dimensions: 80mm x 30mm x 20mm (L x W x H)





PowerTec Solutions International

PSI POE Passive Injector (Optional Splitter)

#POE-INJ-1G/POE-INJ-1GM (Module version)

#POE-SPL-12V Optional



Product Overview

Passive PoE Injector: Our Passive PoE Injector is engineered to provide seamless power and data connectivity for your network devices, supporting speeds up to 1Gb/s (5Gb/s and 10Gb/s coming out soon.) It's an ideal solution for powering IP cameras, wireless access points, VoIP phones, routers/gateways, Optical Network Terminals (ONT,) and other PoE-enabled devices, ensuring your network operates efficiently and effectively.

Optional PoE Splitter: Complement your PoE Injector with our 1Gb/s PoE Splitter, offering a 12V DC 1A output to power non-PoE devices. This splitter allows you to extend PoE benefits to a broader range of network equipment, enhancing your network's versatility and functionality.

PS7P8M-A SERIES – ALCATEL, ZHONG HUA AND HUAWEI TELEMETRY CABLES

The PS7P8M-A Series Premade Telemetry cable is designed specifically to partner with Alcatel, Zhong Hua and Huawei FTTx ONT's requiring 8 pin molex connection and offers easy, out-of-box installation of FTTx UPS to ONT, providing full battery alarming capability. Compatible with all PSI and CyberPower series residential UPS's. The PS7P8M-A Series Telemetry Cable is offered in 1', 2', and 6' lengths. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



8P MOLEX TO UPS BLUNT END TELEMETRY CABLE

The PSI 8 Pin Molex ONT to UPS Blunt End Telemetry Cable offers ease of install at FTTx ONT and customized length to FTTx UPS. Compatible with Calix, Adtran and iPhotonix Indoor ONT's as well as PSI series residential UPS's. Offered in 12', 20' lengths. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



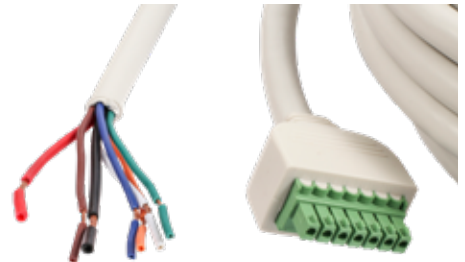
PS7P8M-C SERIES – CALIX, ADTRAN AND IPHOTONIX TELEMETRY CABLES #1234

The PS7P8M-C Series Premade Telemetry cable is designed specifically to partner with Calix, Adtran and iPhotonix FTTx ONT's requiring 8 pin molex connection and offers easy, out-of-box installation of FTTx UPS to ONT, providing full battery alarming capability. Compatible with all PSI and CyberPower series residential UPS's. The PS7P8M-C Series Telemetry Cable is offered in 1.5', 2', 4', 6' and 8' lengths. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



7P UPS TO ONT BLUNT END TELEMETRY CABLE

The PSI 7 Pin UPS to ONT Blunt End Telemetry Cable offers ease of install at FTTx UPS and customized length to FTTx ONT. Compatible with all Residential FTTx ONT's as well as PSI and CyberPower series residential UPS's. Offered in 10', 30' and 60' lengths. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



PS7PCDIN SERIES – CALIX 716-I AND 836GE TELEMETRY CABLE

The PS7PCDIN Series Premade Telemetry cable is designed specifically to partner with Calix 716-I and Calix 836GE FTTx ONT's requiring 9 Pin Din connection and offers easy, out-of-box installation of FTTx UPS to ONT, providing full battery alarming capability. Compatible with all PSI and CyberPower series residential UPS's. The PS7PCDIN Series Telemetry Cable is offered in 1', 2', 4' and 8' lengths. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



RFOG DONGLE

The PSI RFOG Dongle is designed specifically to partner with FTTx ONU deployments requiring standard coax connection for VDC power. Compatible with all PSI and CyberPower series residential UPS's. Custom lengths also available. For more information on this, please visit our website at <https://www.powertecsolutions.net>.



PSI 48 NPFC REMOTE MONITORING UNIT (RMU) FOR PSI RACKMOUNT BATTERIES

#48NPFC-RMU-1.1

Integrates data of 8 rackmount batteries.

1 RU 19 inch rack compatible

Easy to use interface and setup

Compatible with all PSI rackmount batteries

Convenient local web interface and graphics

SMTP email client for sending alarms

Sensor input for door sensors

48V power input from power shelf output, or batteries.

SNMP v2 real time monitoring

Ethernet connection to local networks

Field updateable

Displays battery management system (BMS) data



PSI's Remote Monitoring Unit (RMU) provides a way for customers to monitor rackmount batteries in remote locations. It can be securely installed behind firewalls and accesses to view battery status. There are two ways to monitor. First, users can simply look at the webpage hosted by the RMU alone. An email client can be set up to alert users of alarms via an email alert. Secondly, SNMP allows users monitoring equipment with network management software to monitor their batteries remotely. No matter what method you use, you can rest better knowing the status of your batteries without a trip to remote locations!

FEATURES AND SPECIFICATIONS

Size:	5.6" X 1.8" X 4.7" (141mm X 45.45mm X 120mm) 1RU 19" rack compatible.
Weight:	4.4 lbs (2 Kg)
Power:	0.7A @ 48V (Max) (6.4mmX2.0mm coaxial connector)
SNMP Version:	2
Sensor Type:	4 Normally open (NO)/Normally Closed (NC) switch contact.
Battery Communications:	RS485
Network Communications:	Ethernet/DHCP or static

PSI 48V RACKMOUNT BATTERY (20AHR) #PS48NPFC-20.0L

Charge Voltage: 52-55V

Design Life: 20 Years

PHYSICAL

Dimensions (H x W x D): 44mm x
442mm x

245mm (1.73" x 17.4" x 9.65")

Rack Units: 2RU

More Usable Capacity than similar amp
hour lead acid battery

Comprehensive Communication

Parallel Operation for scalability

Built-in automatic protection for over-
charge, over-discharge and over-tem-
perature conditions

Built-in battery management for highest
level of operational efficiency

State of charge and state
of health indicator

Redundant Safety

Internal cell balancing

Communication of monitored data via
Battery Management System (BMS)]



PSI's Remote Monitoring/Management Software provides realtime visibility to all battery key indicators and alarms to ensure your critical sites never go down. Proactive monitoring was never easier with battery statistic, remaining capacity, temperature, alarm status with its own local webpage and SNMP available through RTU..

APPLICATIONS

- Customer Premise Equipment
- Alarm "Status" LED
- Communications Port For: Battery Health Statistics, Temperature Monitoring, Alarm Alert, Current, Voltage, etc.
- Dry Contact Battery Alarm - Major/Minor Fault (Optional)
- 48VDC output - Two wire connection (+/-) to Rectifier
- Safe, Easy install by anyone in less than 5 minutes
- Connects to any standard 48V Charging System
- Direct Drop-in Replacement to 48V String of Sealed Lead Acid

FEATURES

- Compatible with all standard Telecom rectifiers
- More Usable Capacity than similar amp hour lead acid battery
- Comprehensive Communication
- Parallel Operation for scalability
- Built-in automatic protection for over-charge, over-discharge and over-temperature conditions
- Built-in battery management for highest level of operational efficiency
- State of charge and state of health indicator
- Redundant Safety
- Internal cell balancing
- Communication of monitored data via Battery Management System (BMS)

BATTERY SPECIFICATIONS

Rated Voltage: 48V

Rated Capacity: 20Ah (C, 0.2C to 40.5V @ 25°C)

Discharge Current (Max.): 20A

Discharge End Voltage: 40.5V

Charge Current (Recomm.): 4A

Charge Current (Max.): 20A

Charge Voltage: 54±0.5V

Width: 442 mm

Depth: 243 mm

Height: 88 mm (2U)

Typical Weight: 13.5 Kg

ENVIRONMENTAL

Operating Temperature: -20°C to +60°C

PSI 48V RACKMOUNT BATTERY (50AH)

#PS48NPFC-50-2.0

xDSL/FTTH/FTTX Standby Power	Wireless Standby Power	Redundant Safety
-48V Standby Power	40%-70% Smaller Footprint than Sealed Lead Acid (SLA) Batteries	More Usable Capacity than Sealed Lead Acid (SLA)
Nominal Capacity: 50AH	40%-70% Less Weight than Sealed Lead Acid (SLA) Batteries	Built-in Automatic Protection - Over-Charge/Over-Discharge/Over-Temperature Protection
Cycle Life(25C):2000	Parallel Operation for Ease of Scalability	Internal Cell Balancing
Design Life: 20yrs	Installed by Anyone in Less than 5 Minutes	Communication of Monitored Data via Battery Management System (BMS)
Rack Units: 3RU	Stationary or Portable Power	
Multi-Dwelling Unit (MDU)	State of Charge and State of Health Indicator	
20 Year Battery (Design Life)		



The 48V Battery System delivers the most efficient, intelligent, and cleanest long-life battery backup solution to 48VDC Telecommunications Systems. Developed specifically for Telecom equipment as a drop-in replacement to legacy 48VDC Sealed Lead Acid Battery strings, the Micro Vision's ease of installation, integrated Battery Management System (BMS) and maintenance free design offers the Industry's future for Telecom Standby Power. The PSI Rack Mount 48V Battery Series is offered in 10AH, 20AH, 50AH, and 100AH models and is compatible with all standard Telecom Rectifiers or for use with standard 48V Solar and Charge Controller deployments. With a 40-70% smaller footprint, 40-70% less weight than legacy Sealed Lead Acid, and the highest level of operational efficiency with intelligent Battery Management System, the 48V Battery Series offers the future of Telecom Standby power.

APPLICATIONS

- Compatible with all standard Telecom rectifiers
- More Usable Capacity than similar amp hour lead acid battery
- Comprehensive Communication
- Parallel Operation for scalability
- Built-in automatic protection for over-charge, over-discharge and over-temperature conditions
- Built-in battery management for highest level of operational efficiency
- State of charge and state of health indicator
- Redundant Safety
- Internal cell balancing
- Communication of monitored data via Battery Management System (BMS)

FEATURES

- State of Charge Indicator
- Alarm "Status" LED
- Communications Port For: Battery Health Statistics, Temperature Monitoring, Alarm Alert, Current, Voltage, etc.
- Dry Contact Battery Alarm - Major/Minor Fault
- 48VDC output - Two wire connection (+/-) to Rectifier
- Safe, Easy install by anyone in less than 5 minutes
- Connects to any standard 48V Charging System
- Direct Drop-in Replacement to 48V String of Sealed Lead Acid

BATTERY SPECIFICATIONS

Rated Voltage: 48V
Rated Capacity: 50Ah (C, 0.2C to 40.5V @ 25°C)
Discharge Current (Max.): 50A
Discharge End Voltage: 40.5V
Charge Current (Recomm.): 10A
Charge Current (Max.): 50A
Charge Voltage: 54±0.5V
Width: 442 mm
Depth: 390 mm
Height: 132.5 mm (3U)
Typical Weight: 13.5 Kg

PHYSICAL

Dimensions (H x W x D): 132.5mm x 442.5mm x 390mm (5.2" x 17.42" x 15.35")
Rack Units: 3RU
Weight: 32kg (70.5 lbs)
Terminal Size: M6 (Screw Size)
LCD Screen: Optional
Breaker: Optional
Parallel Capacity (Max): 16 units

STATUS INDICATORS

State of Charge: SOC
Alarm: ALM
Run: RUN

COMMUNICATIONS PORT

Serial: RS232/RS485

ENVIRONMENTAL

Operating Temperature: -20°C to +60°C

PSI 48V RACKMOUNT BATTERY (100AH) #48NPFC-100-2.0L

xDSL/FTTH/FTTX Standby Power	Wireless Standby Power	Redundant Safety
-48V Standby Power	40%-70% Smaller Footprint than Sealed Lead Acid (SLA) Batteries	More Usable Capacity than Sealed Lead Acid (SLA)
Nominal Capacity: 50AH	40%-70% Less Weight than Sealed Lead Acid (SLA) Batteries	Built-in Automatic Protection - Over-Charge/Over-Discharge/Over-Temperature Protection
Cycle Life(25C):2000	Parallel Operation for Ease of Scalability	Internal Cell Balancing
Design Life: 20yrs	Installed by Anyone in Less than 5 Minutes	Communication of Monitored Data via Battery Management System (BMS)
Rack Units: 3RU	Stationary or Portable Power	
Multi-Dwelling Unit (MDU)	State of Charge and State of Health Indicator	
20 Year Battery (Design Life)		



The 48V Battery System delivers the most efficient, intelligent, and cleanest long-life battery backup solution to 48Vdc Telecommunications Systems. Developed specifically for Telecom equipment as a drop-in replacement to legacy 48Vdc Sealed Lead Acid Battery strings, the ease of installation, integrated Battery Management System (BMS) and maintenance free design offers the Industry's future for Telecom Standby Power. The 48V Battery Series is offered in 20AH, 50AH and 100AH models and is compatible with all standard Telecom Rectifiers or for use with standard 48V Solar and Charge Controller deployments. With a 40-70% smaller footprint, 40-70% less weight than legacy Sealed Lead Acid, and the highest level of operational efficiency with intelligent Battery Management System, the 48V Battery Series offers the future of Telecom Standby power.



PowerTec Solutions International



PowerTec Solutions International

CUSTOM POWER CUSTOM SOLUTIONS

480 Reasonover,
Franklin, KY 42134

P: (270) 813-1110
E: info@powertecsolutions.net