

Tellabs® Optical Network Terminals (ONT) Mini Power and Battery Back-Up Unit

Keep your Optical LAN operational in the event of power outages

Overview

The Tellabs enterprise mini Power Supply Unit (emPSU) employs leading-edge lithium-ion technology, providing both local power source and battery back-up (BBU). It achieves a very small form-factor for ease of placement anywhere in the office space.

The emPSU supports all next-generation Tellabs ONTs requiring a 48-volt DC input. The Tellabs emPSU delivers uninterruptible power for network communications, VoIP, WiFi, network surveillance and building monitoring applications.

Along with providing stable 48 volt DC power, the Tellabs emPSU is supplemented with battery back-up capability to help ensure up to 30 minutes of continuous power – even through power loss.

Product Features

- Leading-edge lithium-ion BBU solution to achieve extremely compact size
- Provides 30 minutes of battery back-up under the following typical loads on the ONT
 - Four (4) VoIP desktop phones (average 7.5 watts each)
 - One (1) 30W WAP or HD security camera
- Microprocessor-based intelligent control
- Communication interface to provide status updates to the ONT and customer
- Audible alarm signals utility failure and low battery
- Easy user-replaceable batteries
- Emergency cold start function allows for “last gasp” 911 availability

Optical Network Terminal Support

- Tellabs® 709GP ONT
- Note: This BBU does not support +12Vdc input ONTs

Intelligence

- Easy-to-read LEDs
- Audible alarm with cut-off button
- Self-diagnostic tests
- Hot-swappable batteries

Quality

- State-of-the-art manufacturing and design
- Maintenance-free
- Streamlined installation

Safety

- UL, Cul, FCC and CE safety-tested
- Proven track record of quality and dependability

Specifications

Input

- Nominal voltage – 54Vdc
- Input voltage range – 46-56Vdc

Output

- Output voltage – 48Vdc (nominal)
- Maximum continuous output power (line mode) – 72W
- Maximum continuous output power (battery mode) – 40W
- Efficiency – >80%
- Standby power consumption - <1.5W
- Transfer time - <1msec
- Typical backup time – 30 minutes @ 40W load
 - ONT load + four PoE at 7.5W each
 - ONT load + one PoE at 30W



Tellabs enterprise mini Power Supply Unit (emPSU)



Batteries

- Type – Lithium-ion rechargeable
- Number of cells – (4) in one battery pack
- Nominal voltage per cell – 3.6Vdc
- Rechargeable
- Replaceable

Cables

- 26 inch power/communications cable to ONT
- Pre-molded seven-position connectors

Warning Diagnostics

- Indicators
 - Output
 - On battery
 - Fault indicators

Management

- Auto-charge
- Communication interfaces
 - On battery
 - Replace battery
 - Battery missing
 - Low battery

Physical

Dimensions

- 6.50” length, 3.78” wide, 1.85” height (165mm x 96mm x 47mm)

Weight

- 1.28 pounds

Environmental Specifications

- Operating temperature – 23 degrees F to 131 degrees F (-5 C to 55 C)

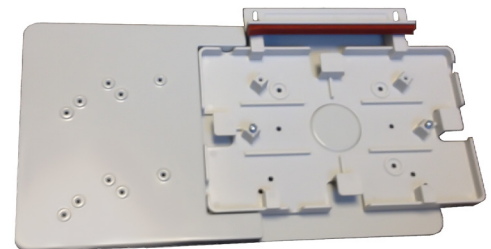
- Operating humidity – 0 to 95% non-condensing within enclosure
- Max operating elevation – 10,000 ft. (3,000m)
- Max storage elevation – 50,000 ft. (15,000m)
- Storage temperature – 23 degrees F to 131 degrees F (-5C to 55C)
- Compliance – UL60950-1 2nd edition, FCC part 15 class B

Ordering Information

- emPSU battery back-up unit (includes battery)
 - Tellabs part # 81.16G-DSKTPBBU-R6
- Bracket desktop BBU (10) Pack
 - Tellabs part # 81.16G-DTBRK10-R6
- Battery pack for desktop BBU (10) Pack
 - Tellabs part # 81.16G-DTBAT10-R6
- Power adapter – AC local power source
 - Tellabs part # 81.16G-PW709GPB-R6



Tellabs Optical Network Terminal (709GP) with the Tellabs emPSU BBU



Bracket assembly for the Tellabs ONT and the Tellabs emPSU BBU unit

Next Step:

Visit www.tellabs.com/solutions/opticallan to learn more about how Tellabs Optical LAN Solutions are solving enterprise network challenges while significantly reducing CapEx and OpEx, power consumption, and space requirements. If you have a question about Tellabs Optical LAN Solutions, please email ask@tellabs.com.



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