



19.6W Power over Ethernet Adapter DC Input Single Port Injector



InterOperability Laboratory
Part of the University of New Hampshire Research Computing Center



Features

- Detection and Classification per IEEE802.3af
- Diagnostic LEDs
- Non-Vented Case
- DC Input Voltage 18-72VDC
- 1 Year Warranty
- UNH IOL Tested
- Full Protection OCP, OVP
- Gigabit Compatible
- Lowest cost DC Input Power Injector

Applications

- IP Telephones
- Wireless Network Access Points
- Blue Tooth Access Point
- Security Cameras
- IP Print Servers

Safety Approvals

- CE±

Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 65mm (2.55in)
- Height: 36mm (1.42in)
- Weight: 0.2Kg (0.44lb.)

Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE20D-1AF	56V	0A	0.35A	54-57Vdc under all conditions	

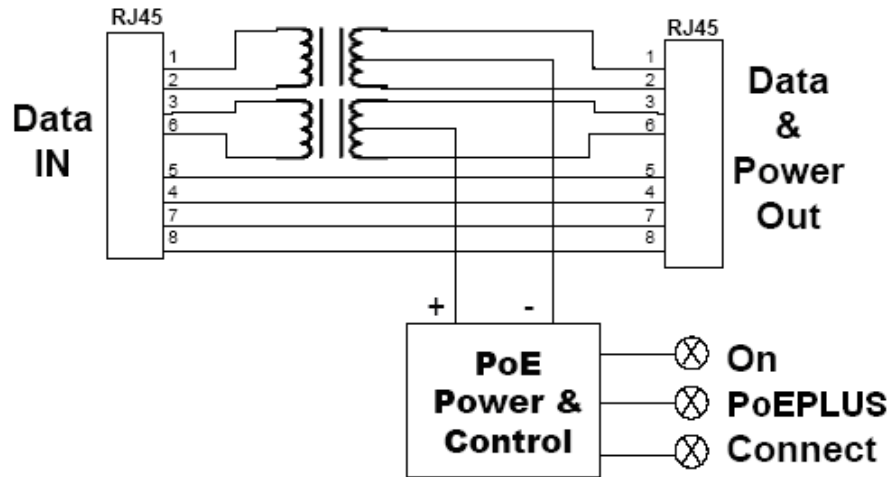
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Technical drawing of the 1000mAh power bank showing dimensions and labels:

- Top View Dimensions:**
 - Overall width: 163.25 ± 0.15
 - Inner width: 152.00
 - Width with ports: $*140 \pm 0.15$
 - Height: 50.00
 - Bottom width: 104.00
- Front View Dimensions:**
 - Height: $*65 \pm 0.10$
 - Port area height: 41.00
 - Port area width: 9.00×2
 - Bottom width: 104.00
- Side View Dimensions:**
 - Thickness: 3.50×2
 - Bottom width: 9.00×2
- Rear View Dimensions:**
 - Height: $*36 \pm 0.30$
 - Width: 1.2 MAX
- Labels and Features:**
 - MODEL LABEL:** Points to the top surface of the power bank.
 - TEXT: LASER ENGRAVING:** Points to the bottom surface of the power bank.
 - CONNECT PORT:** Label for the bottom-left port.
 - OUT IN:** Labels for the bottom-right ports.
 - IN + IN:** Label for the top-right ports.



Gigabit Power Injector Block Diagram



Description of LED Functions for Gigabit Power Injector

Power-up Sequence:

Upon power-up, all 3 LEDs will light for 2 seconds, as part of the self-test for the internal microprocessor software. After the end of the 2 seconds, the "ON" LED will illuminate green, signifying that the DC output voltage is available for powering a compliant load (to the 802.3af PoE standards).

Detection Sequence:

Once a compliant load is attached to the output RJ45 connector, the green "CONNECT" LED will illuminate.

Should the load be non-compliant then the LEDs will blink a code signifying the cause for non-detection.

Detection Failure Codes:

1. Incorrect resistive signature – The green "CONNECT" and red "FAULT" LEDs will blink 3 times.
2. Incorrect capacitive signature – The green "ON" LED will blink 3 times.
3. Incorrect Voffset – The green "CONNECT" and green "ON" LEDs will blink 3 times.
4. Unstable current measurement – The green "ON" LED will blink 3 times
5. Low voltage sensed during detection (overload) – The red "FAULT" LED will blink 3 times

After the LEDs blink 3 times the Power Injector will continue to try to detect a valid load. Therefore, until the correct load is applied, the LEDs will continue to blink. If there is an open circuit connected to the output RJ45 then the LEDs will not blink but the Power Injector will continue to try to detect a valid load.

Fault Sequence:

Should there be a fault such as an overload or short circuit then the red "FAULT" LED will illuminate. The red "FAULT" LED will illuminate for 2 seconds and then go off as the power supply tries to redetect a valid load. If there is a problem in detecting, the LED will indicate what is wrong with the load as per the codes in the section above.