#### WWW.PHIHONG.COM



# **33.6W Power over Ethernet Adapter** DC Input High Power Single Port Injector



# CE

# FeaturesCompliant with the IEEE802.3at

- Standard
- Diagnostic LEDs
- Non-Vented Case
- Classification per IEEE802.3at
- 1 Year Warranty

# Applications

- IP Telephones
  - Wireless Network Access Points
  - Blue Tooth Access Point

# Safety Approvals

• CE

Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 65mm (2.55in)
- Output Specifications

Gigabit Compatible

Full Protection OCP, OVP

- DC Input Voltage 36-72VDC
- Cisco AP1250 Full Power Support
- Security Cameras with Pan/Tilt/Zoom
- IP Print Servers
- Height: 36mm (1.42in)
- Weight: 0.2Kg (0.44lb.)

ModelDC Output<br/>VoltageLoadRegulationPOE36D-1AT156VMin.Max.LineLoad0A0.60A54-57Vdc under all conditions

Notes: (1) consult factory for availability

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

#### **POE36D – 1AT Characteristics**

**INPUT: DC Input Voltage Range** 36 to 72VDC

#### **DC Input Current** 1.2A (DC) maximum for 36VDC

#### **OUTPUT: Total Output Power** 33.6W at 56VDC

#### **DC Offset**

No data degradation with DC imbalance 18mA

**Efficiency** 80% (typical) at maximum load

**Ripple and Regulation** 100mV maximum

#### **Transient O/P Voltage Protection**

60V maximum at switch on and off

# **ENVIRONMENTAL:**

#### Temperature

Operation-20 to +50°CNon-operation-25 to +85°CHumidity5 to 90%

# EMC

Complies with FCC Class B Complies with EN55032 Class B

# **Isolation Test**

Primary to Secondary: 2121VDC for 1 minute, 10mA Primary to Field Ground: 2121VDC for 1 minute, 10mA Output to Field Ground: 2121VDC for 1 minute, 10mA

#### WWW.PHIHONG.COM

# Immunity

ESD:	EN61000-4-2.	Level 3
RS:	EN61000-4-3.	Level 3
EFT:	EN61000-4-4.	Level 2
Surge:	EN61000-4-5.	Level 3
CS:	EN61000-4-6.	Level 3

#### **Insulation Resistance**

Primary to Secondary: >10M OHM 500VDC Primary to Field Ground: >10M OHM 500VDC

# **FEATURES:**

#### Cisco

No extern parts required for Legacy devices: VoIP Phones:7910, 7912, 7940, 7960 Access Points:1040, 1140, 1250, 1260, 3500

#### **Over Voltage/Current, Short Circuit Protection**

The output can be shorted permanently without damage

# Indicators

Green LED 1: Input power "ON" Green LED 2: Valid IEEE8-2.3at load detected and connected "PoE PLUS" Green LED 3: Valid IEEE802.3af load detected and connected

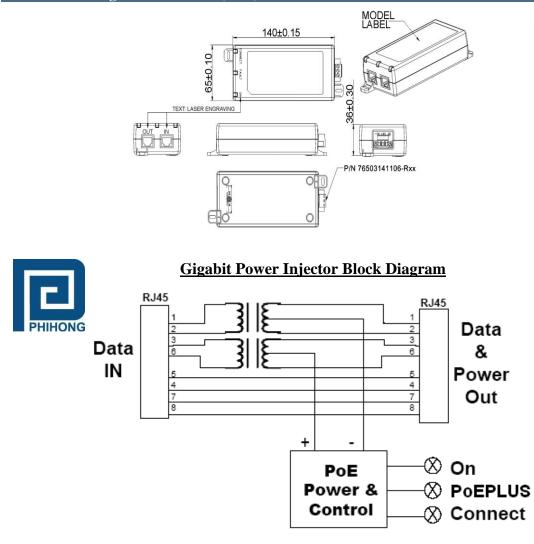
# **Input Connector**

Anytek OQ0355510000G
Mate – Anytek TJ0350520000G or
TJ035152000G. Anytek is part of Giga-Way
Technology Corp

# **Output Connection**

+pins 3, 6 -pins 1,2

#### **Dimension Diagram Unit: mm (inch)**



**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 802.3at PoE standards).

#### **Detection Sequence:**

Once a compliant load is attached to the output RJ45 connector, the green "CONNECT" LED will illuminate. Should the load is classified as Class 4 PD, the green "PoEPLUS" LED will illuminate. Otherwise, "PoEPLUS" LED will stay off. 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 green "PoEPLUS" 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 "CONNECT" LED will blink 3 times
- Low voltage sensed during detection (overload) The green "PoE PLUS" LED will blink 3 times

After the LEDs blink 3 times the PSE 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 PSE will continue to try to detect a valid load.

#### Fault Sequence:

Should there be a fault such as an overload or short circuit then all the three LEDs will blink 5 times in 2 seconds, and then go off as the power supply tries to re-detect 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.