



Multi Port Passive POE injector

Using your WS-GPOE-AB-6-56v power injector for 802.3at or 56v devices



WS-GPOE-AB-6 (Mode A or B)

Please follow this information: .

- Is the device you will power compatible with 802.3at ?
- Connect the DC cord from the power brick supplied to the Injector (see table below)
- for full 802.3at operation – use the DC splitter to feed power to both the A and B inputs
- Apply AC power (100 to 240v AC) to the power brick
- The ground lead is only needed for outdoor installations with shielded Cat-5e
- 10/100 and gigabit rates are supported.
- For each powered device, connect PoE to the device, and LAN to your switch
- We can power 802.3at and 802.3af – without negotiation – power is on all the time
- If the device shows “12v, PoE” on the data sheet – this means that the device use 12v when powered from a transformer – and 48v when powered via CAT-5.
- If you need pins 12+ and 36- then you can use a standard Ethernet crossover cable.
- we have 60 watt and 120 watt versions of this kit.

Mode A and B power inputs

Device Spec	Mode A - DC Input RJ45 pins 12- 36+	Mode B - DC Input RJ45 pins 45+ 78-	Note
802.3at	56 volts	56 Volts	for up to 240 watts to or 60 watts per port
802.3af or “12v, PoE”	48 volts	48 volts or none	Use B input for load balancing or redundar
Passive 24v	None	24 volts	Mikrotik, UBNT, OpenMesh, Tranzeo

URL: <http://wifi-texas.com/> Skype:wifiqos

Power ON	1-6 RJ45 socket LED
Port current 0-400ma	● GREEN
Port current >400ma	● GREEN
	● YELLOW

Connect the LAN port to your Ethernet switch. Connect the PoE side to your device. Each socket has a 650 ma current limiter. This device will shut down the socket if power exceeds 1.3 amps for more than a few seconds. It will restore power if the load is less than 650 ma is needed.



The power supply included is UL, CE and FCC approved and has an input voltage of 100 to 240 volts, 50/60 hertz
 AC power cord is included in the USA and Canada

Here is why 56v is used in 802.3at

The device needs power – a 802.3at device needs up to 25 watts. So at 12 volts – that is 2 amps. The loss at 2 amps is about 1 volt per 10 feet.

If we use 56 volts – the power is the same, but the current is lower – about 450 milliamps. We also use all 4 pairs for power – so the current per pair is 225 ma. An ethernet wire can be up to 328 ft – the loss at max distance is only 2 volts – 40 times less loss than at 12 volts.

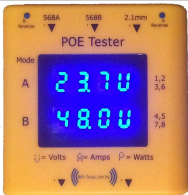
Is 60 or 120 watts going to damage my device?

No. High Voltage can damage a device, because if the voltage is higher than allowed, the circuitry in the device “breaks down” drawing a lot of power, and that power will melt things. But at any allowed voltage – the device takes only the power it needs to operate - you cannot “push” power.

Other Products from WiFi-Texas



12 and 16 port rack mount
 10/100mb or gigabit



PoE Tester



5v, USB and 12 volt active
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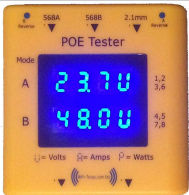
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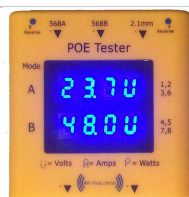
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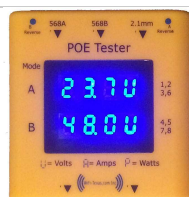
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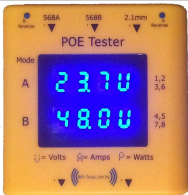
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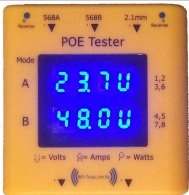
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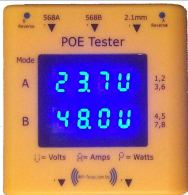
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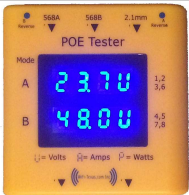
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- Is the device you will power compatible with 802.3at ?
- Connect the DC cord from the power brick supplied to the Injector (see table below)
- for full 802.3at operation – use the DC splitter to feed power to both the A and B inputs
- Apply AC power (100 to 240v AC) to the power brick
- The ground lead is only needed for outdoor installations with shielded Cat-5e
- 10/100 and gigabit rates are supported.
- For each powered device, connect PoE to the device, and LAN to your switch
- We can power 802.3at and 802.3af – without negotiation – power is on all the time
- If the device shows “12v, PoE” on the data sheet – this means that the device use 12v when powered from a transformer – and 48v when powered via CAT-5.
- If you need pins 12+ and 36- then you can use a standard Ethernet crossover cable.
- we have 60 watt and 120 watt versions of this kit.

Mode A and B power inputs

Device Spec	Mode A - DC Input RJ45 pins 12- 36+	Mode B - DC Input RJ45 pins 45+ 78-	Note
802.3at	56 volts	56 Volts	for up to 240 watts to or 60 watts per port
802.3af or “12v, PoE”	48 volts	48 volts or none	Use B input for load balancing or redundar
Passive 24v	None	24 volts	Mikrotik, UBNT, OpenMesh, Tranzeo

URL: <http://wifi-texas.com/> Skype:wifiqos

Power ON	1-6 RJ45 socket LED
Port current 0-400ma	● GREEN
Port current >400ma	● GREEN
	● YELLOW

Connect the LAN port to your Ethernet switch. Connect the PoE side to your device. Each socket has a 650 ma current limiter. This device will shut down the socket if power exceeds 1.3 amps for more than a few seconds. It will restore power if the load is less than 650 ma is needed.



The power supply included is UL, CE and FCC approved and has an input voltage of 100 to 240 volts, 50/60 hertz
 AC power cord is included in the USA and Canada

Here is why 56v is used in 802.3at

The device needs power – a 802.3at device needs up to 25 watts. So at 12 volts – that is 2 amps. The loss at 2 amps is about 1 volt per 10 feet.

If we use 56 volts – the power is the same, but the current is lower – about 450 milliamps. We also use all 4 pairs for power – so the current per pair is 225 ma. An ethernet wire can be up to 328 ft – the loss at max distance is only 2 volts – 40 times less loss than at 12 volts.

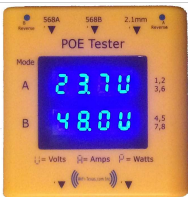
Is 60 or 120 watts going to damage my device?

No. High Voltage can damage a device, because if the voltage is higher than allowed, the circuitry in the device “breaks down” drawing a lot of power, and that power will melt things. But at any allowed voltage – the device takes only the power it needs to operate - you cannot “push” power.

Other Products from WiFi-Texas



12 and 16 port rack mount
10/100mb or gigabit



PoE Tester



5v, USB and 12 volt active
splitters

WiFi-Texas.com inc 815-A Brazos #326 Austin Texas, 78701 **tel: 512-479-0317**

URL: <http://wifi-texas.com/> Skype:wifiqos



Multi Port Passive POE injector

Using your WS-GPOE-AB-6-56v
power injector for 802.3at or 56v devices



WS-GPOE-AB-6 (Mode A or B)

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- Apply AC power (100 to 240v AC) to the power brick
- The ground lead is only needed for outdoor installations with shielded Cat-5e
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- For each powered device, connect PoE to the device, and LAN to your switch
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Passive 24v	None	24 volts	Mikrotik, UBNT, OpenMesh, Tranzeo

URL: <http://wifi-texas.com/> Skype:wifiqos

Power ON
Port current 0-400ma
Port current >400ma

1-6 RJ45 socket LED

● GREEN
● GREEN
● YELLOW

Connect the LAN port to your Ethernet switch. Connect the PoE side to your device. Each socket has a 650 ma current limiter. This device will shut down the socket if power exceeds 1.3 amps for more than a few seconds. It will restore power if the load is less than 650 ma is needed.



The power supply included is UL, CE and FCC approved and has an input voltage of 100 to 240 volts, 50/60 hertz

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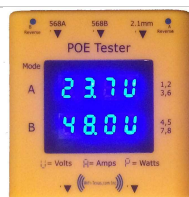
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URL: <http://wifi-texas.com/> Skype:wifiqos

Power ON
Port current 0-400ma
Port current >400ma

1-6 RJ45 socket LED

● GREEN
● GREEN
● YELLOW

Connect the LAN port to your Ethernet switch. Connect the PoE side to your device. Each socket has a 650 ma current limiter. This device will shut down the socket if power exceeds 1.3 amps for more than a few seconds. It will restore power if the load is less than 650 ma is needed.



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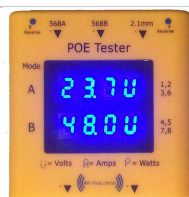
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Using your WS-GPOE-AB-6-56v power injector for 802.3at or 56v devices



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Power ON
Port current 0-400ma
Port current >400ma

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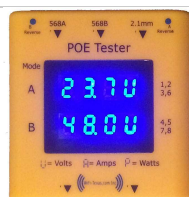
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