



# KPOE-100P



## IEEE 802.3at PSE High Power Mid-span Injector

KPOE-100P TOP view



AC power adapter



Power over Ethernet (PoE) provides a way for Ethernet network devices to be powered by UTP cables, including Cat.3, 5, 5e, and 6 rather than by separate power cords. The specification is compatible with standard Ethernet UTP hardware without requiring modification. The PoE standard covers power sourcing equipment (PSE) and powered devices (PDs). The PSE, sometimes called an injector or power source device, puts power onto the UTP cable and the PD draws the power off. The PDs usually found are IP telephone, wireless AP, IP camera and media converters.

KPOE-100P is an IEEE 802.3at-compliant PoE PSE injector that supports both 802.3at Type 2 high power PDs and earlier 802.3af Type 1 PDs. The injector supports both Fast Ethernet connection and Gigabit Ethernet connection and can deliver output power up to 30Watts and support up to 25Watts at remote Type 2 PD end. For no damage to the connected PD, it is enhanced with smart design to discover compliant PD. It shuts down the power immediately when non-compliance is discovered. For safety, other protections for conditions such as disconnection, overload, over-current, and short circuit are also provided to secure your network installation.

So, KPOE-100P is an ideal and up-to-date power solution for industrial and open-office environments where power supplies are often inconveniently located.

### Key Features:

- IEEE 802.3at standard compliant
- Supports both Fast Ethernet and Gigabit Ethernet
- Backward compatible with 802.3af-compliant PD
- Delivers power output up to 30W
- Type 1 and Type 2 compliant PD discovery & classification
- Power shutdown protection for non-compliant PD
- Power shutdown protection for disconnection
- Power shutdown protection for overload, over-current, and short circuit
- Plug and play with no configuration required
- Supports screw mounting

### Specifications:

IN JACK	Shielded RJ-45 Ethernet, Fast Ethernet and GbE support Cat.5, 5e, 6 support
OUT JACK	Shielded RJ-45 PSE pins: 4,5,7,8 Ethernet, Fast Ethernet and GbE support 4-pair Cat.5, 5e, 6 support Distance mid-span up to 100meters
PoE PSE	IEEE 802.3at standard PSE pin 4/5 -Positive DC, Pin 7/8 -Negative DC Power delivery 30W max. at port output 2-Event classification support



KC-350 KC-351  
PoE PD 10/100TX to 100FX  
media converters



KGC-352  
PoE PD Gigabit Ethernet  
media converters



FCC Part 15, Class B  
CISPR 22 Class B

**Katron Technologies Inc.**

15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-chih, New Taipei City, Taiwan, R.O.C.  
Tel: 886-2-2698-3878  
Fax: 886-2-2698-3873  
E-mail: kti@ktinet.com.tw  
URL: http://www.ktinet.com.tw

**KTI Networks Inc.**

10415-A Westpark Drive, Houston,  
TX 77042. U.S.A.  
Tel: 1-713-266-3891  
Fax: 1-713-914-0555  
E-mail: contact@ktinet.com  
URL: http://www.ktinet.com

Trademarks: All brand names are trademarks or registered  
trademarks of their respective holders.  
This information is subject to change without prior notice.

Protection	Incompliant PD detection, Disconnection Overload, Over-current Short-circuit, Under voltage
LED Indicators	Power status, PoE power status
Power Input	DC IN Jack for external power adapter Input working voltage: +51 ~ +57VDC for both Type 2 and Type 1 connection Input working voltage: +45 ~ +57VDC for Type 1 connection
Environment	Operating Temperature: -5°C ~ 50°C (Main device) Storage Temperature: -20°C ~ 80°C Relative Humidity: 5% ~ 95% non-condensing
Dimension	50 x 80 x 21mm (WxDxH)
Approval	FCC Class B, CE Class B
Power Supply	External type AC-DC power adapter Rated input voltage 100~240 VAC Rated input frequency 50/60Hz Output voltage 56VDC (+1%/-3%) Output current 0.5A max. IEC320 AC power cord (attachable)

