

PA Power Supply box

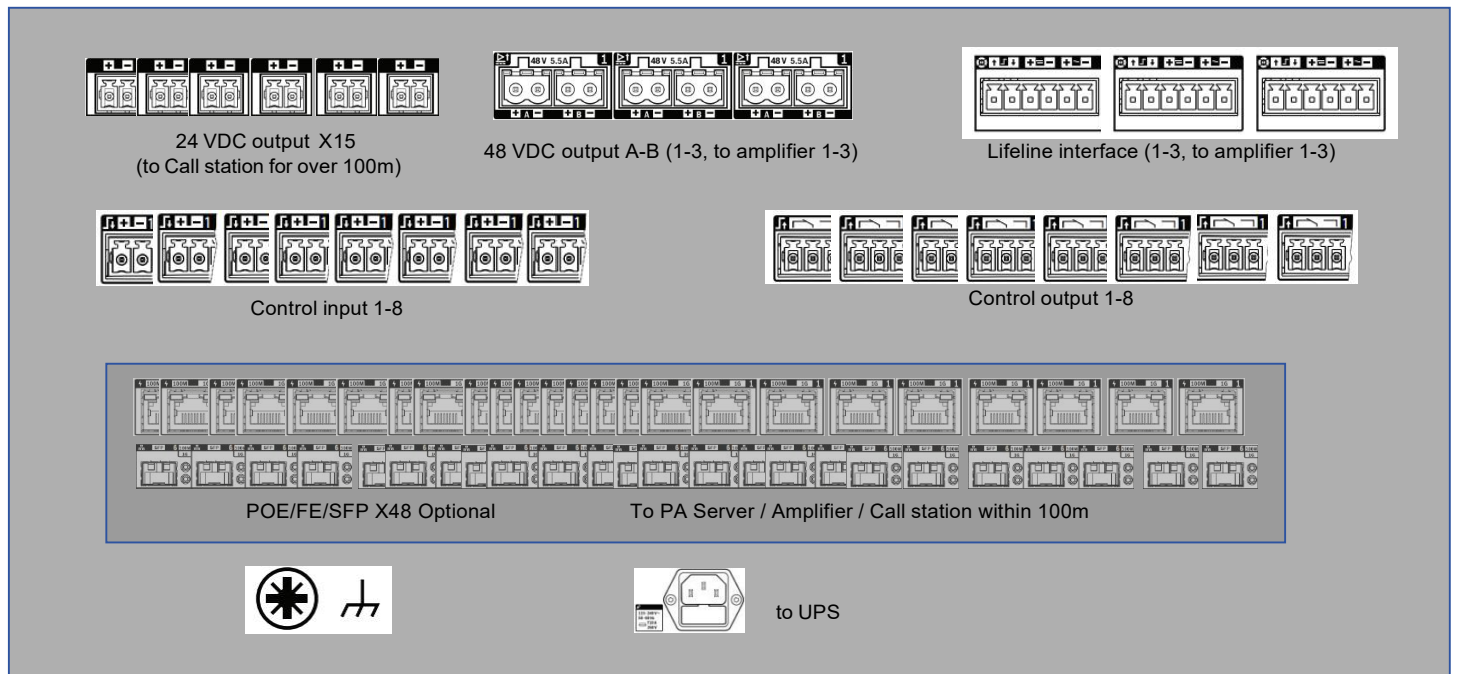
Model no.: KNPAPS1



- The IP-networked PA Power Supply box designed exclusively for use with the PA system.
- The PA Power Supply box contain four independent mains power supplies with power factor correction and dual output connection facilities to power up to three 600 W amplifiers and to power a system controller and call stations.
- The PA Power Supply box have eight general purpose control inputs with connection supervision and eight voltage free control outputs.
- The PA Power Supply box provide an interface for control data and to receive a backup audio channel using an integrated up to 48-port Ethernet switch for redundant network connections, supporting RSTP and loop-through cabling.
- Two ports shall have PoE to provide redundant power to a call station.
- The backup audio channel shall be available as analog lifeline to connected amplifiers.
- The PA Power Supply box provide front-panel LED indications for status of the power supply sections, mains and battery, network link and fault presence, and provide additional software monitoring and fault reporting features.
- The PA Power Supply box rack mountable (2U).
- The PA Power Supply box certified for EN 54-4 and ISO 7240-4, marked for CE and be compliant with the RoHS directive or equivalent.
- It is three-year warranty.
- Out put:
 - 48 network port for Amplifier/Call station/ PA System Controller Server
 - 10 FSP Fiber + pair cable
 - 48V DC output AB (1-3, to amplifier 13) Lifeline interface (1-3, to amplifier 13)
 - Control input 1-8
 - Control output 1-8
 - Chassis ground

- Power over Ethernet power source
- Network switch
- Controller
- Audio processing (DSP)
- Mains to DC converter
- DC to DC converter
- Control input processor
- Control output relay
- Lifeline audio output
- Lifeline supply output
- Lifeline control interface

PA Power Supply Box Rear panel



Parts included

Quantity	Component
1	Multi-function power supply
1	Set of 19"-rack mounting brackets (pre-mounted)
1	Set of screw connectors
1	Mains power cord
1	Safety information

Technical specifications

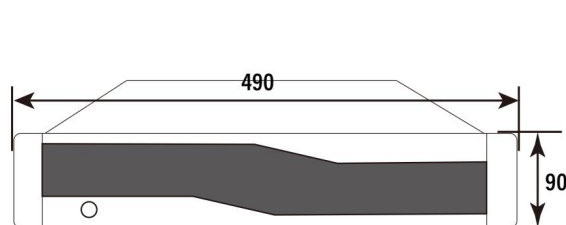
Power transfer	
Mains power supply input	
Input voltage range	115 to 240 VRMS
Input voltage tolerance	102 to 264 VRMS
Frequency range	50 to 60 Hz
Inrush current	< 20 A
Power factor (PF)	0.9 to 1.0
Leakage current to safety ground	< 0.75 mA (120 V), < 1.5 mA (240 V)
48 VDC outputs (1-3)	
Nominal DC output voltage	48 V
Maximum continuous current	5.5 A
Maximum peak current	7.0 A
24 VDC output	
Nominal DC output voltage	24 V
Maximum continuous current	0.7 A
Maximum peak current	0.9 A
Lifeline DC outputs (1-3)	
Nominal DC output voltage	18 V
Maximum continuous current	0.7 A
Maximum peak current	1.0 A
Power over Ethernet (PoE 1-2)	
Nominal DC output voltage	48 V
Standard	IEE 802.3af (mode B)
Maximum PD load	12.95 W
Power consumption	
Mains powered	
Active mode, all outputs loaded	<1000 W
Lifeline / power save interface	
Audio level (100 V / 70 V mode)	0 dBV / -6 dBV
Frequency response (+0 / -3 dB)	200 Hz to 15 kHz
Signal to Noise Ratio (SNR)	90 dBA

Control interface	
Contact closed	8 to 12 k ohm
Contact open	18 to 22 k ohm
Minimum hold time	100 ms
Maximum voltage to ground	24 V
Control output contacts (1-8)	
Principle	Contact switch over (Relay SPDT) 9 to 15 V
Galvanic isolation	Yes
Maximum contact voltage	110 VDC, 125 VAC
Maximum current	1A
Maximum voltage to ground	500 V

Supervision	
Fan	Rotation speed
Controller continuity	Watchdog
Network interface	Link presence

Network interface	
Ethernet	100BASE-TX, 1000BASE-T
Protocol	TCP/IP
Network audio latency	10 ms
Audio data encryption	AES128
Control data security	Watchdog
Ports	
RJ45	5 (2 with PoE)
SFP	1

Size



All Dimensions are in mm

Web: www.koontech.com

Email: marketing@koontech.com

Tel: (HK Office) +852 9068 2799 / (Shenzhen Office) +86 2744 8753

Office:

HK Office: Unit C5, 11/F, Ka To Factory Building, 2 Cheung Yue Street, Cheung Sha Wan, Kowloon, Hong Kong

Shenzhen Office: T3 1001, Yifang Center, Baoan, Shenzhen, China

Factory: KNTECH Building, Phoenix Mountain, Limhai Zone, Shajiao Community, Humen, Dongguan, China