DATASHEET



PoE Adapter

Provides Earth Grounding and Surge Protection

Helps Protect Against ESD Events

Powers Ubiquiti® PoE Devices



PoE Adapter

Ubiquiti Networks offers Power over Ethernet (PoE) Adapters to power a variety of Ubiquiti products. The PoE Adapters are compatible with most Ubiquiti PoE devices*, including:

- airFiber[®]
- airMAX[®]
- EdgeMAX[®]
- mFi®
- UniFi[®] AP
- UniFi Protect / airVision®
- UniFi LED
- UFiber
- * Check product specifications to verify PoE compatibility.

Ubiquiti PoE Adapter Compatibility with the airGateway®

Specific PoE Adapter models are designed to work with the airGateway. The airGateway is a compact CPE (consumer premises equipment) gateway with built-in Wi-Fi used to connect the subscriber's local network to the WISP network.

The airGateway is available in three models:

- airGateway Standard model with an internal antenna
- airGateway Pro Dual-Band Wi-Fi model with an internal antenna
- airGateway-LR Long-range Wi-Fi model with an external antenna for extended range

The airGateway plugs into any of these PoE Adapters:

Model Number	Compatibility
POE-15-12W	\checkmark
POE-24-12W	\checkmark
POE-24-12W-G	√*
POE-24-7W-G-WH	√*
POE-24-12W-G-WH	√*

* airGateway maximum LAN port speed: 100 Mbps



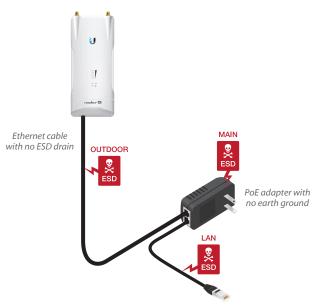
Protection

Ubiquiti PoE Adapters provide a variety of features to help protect your PoE devices:

- Surge protection
- Clamping protection
- Maximum surge discharge
- Peak pulse current
- AC cable with earth ground

Electrostatic discharge (ESD) is the leading cause for outdoor device failures. You can effectively protect against ESD damage using a grounded Ubiquiti PoE Adapter, TOUGHCable™, and TOUGHCable Connectors.

Potential for ESD



Areas vulnerable to ESD events in a network without a Ubiquiti PoE Adapter.

Protection Against ESD



Ubiquiti PoE Adapters and TOUGHCable protect against ESD events in a network.

Models



POE-25-5W



POE-24-12W-G-WH POE-24-12W-WH



POE-24-AF5X



POE-24-7W-G-WH



POE-24-24W-WH



POE-24-24W POE-24-24W-G POE-24-30W

POE-48-24W POE-48-24W-G



POE-15-12W POE-24-12W POE-24-12W-G



POE-24-30W-G-WH



POE-24-24W-G-WH POE-48-24W-WH POE-48-24W-G-WH



U-POE-af



POE-50-60W



POE-50-60W-WH



U-POE-at

POE-54-80W

Model	POE-25-5W	POE-24-7W-G-WH	POE-15-12W
Dimensions	64 × 44× 30 mm (2.53 × 1.73 × 1.18")	72 x 45 x 33 mm (2.84 x 1.75 x 1.33")	85 x 44 x 29 mm (3.35 x 1.73 x 1.14")
Weight	65 g (2.3 oz)	72.1g (2.54 oz)	91.7 g (3.24 oz)
Output Voltage	25VDC @ 0.2A	24VDC @ 0.3A	15VDC @ 0.8A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	No	Yes	No
Remote Reset Capability	Yes	Yes	No
Reset Button	Yes	Yes	No
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.3A @ 120VAC, 0.2A @ 240VAC	0.3A @ 120VAC, 0.2A @240VAC	0.3A @ 120VAC, 0.2A @ 240VAC
Inrush Current	<40A Peak @ 120VAC, <70A Peak @ 230VAC	<40A Peak @ 120VAC, <70A Peak @ 230VAC	<30A Peak @ 120VAC, <60A Peak @ 230VAC
Efficiency	72+%	80+%	75+%
Output Ripple	1% Max.	1% Max.	1% Max.
Switching Frequency	60kHz Max.	65 kHz	50 kHz
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)
4-Pair Powering	-	_	-
Operating Temperature	0 to 40° C (32 to 104° F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70° C (-22 to 158°F)	-30 to 70°C (-22 to 158°F)	-30 to 70°C (-22 to 158°F)
Operating Humidity	35 to 95% Noncondensing	35 to 95% Non-Condensing	35 to 95% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 µs) Power	1500A (8/20 μs) Power	1500A (8/20 µs) Power
Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 µs) Data	36A (10/1000 µs) Data
Shunt Capacitance	<5 pF data	<5 pf data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL
			1

Model	POE-24-12W	POE-24-12W-G	POE-24-12W-G-WH
Dimensions	87 x 44 x 29 mm (3.43 x 1.73 x 1.14")	87 x 44 x 29 mm (3.43 x 1.73 x 1.14")	89 x 46 x 33 mm (3.48 x 1.81 x 1.30")
Weight	92 g (3.25 oz)	99.4 g (3.51 oz)	75 g (2.65 oz)
Output Voltage	24VDC @ 0.5A	24VDC @ 0.5A	24VDC @ 0.5A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	No	Yes	Yes
Remote Reset Capability	Yes	Yes	Yes
Reset Button	Yes	Yes	Yes
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.3A @ 120VAC, 0.2A @ 240VAC	0.3A @ 120VAC, 0.2A @ 240VAC	0.3A @ 120VAC, 0.2A @ 240VAC
Inrush Current	<30A Peak @ 120VAC, <60A Peak @ 230VAC	<30A Peak @ 120VAC, <60A Peak @ 230VAC	<30A Peak @ 120VAC, <60A Peak @ 230VAC
Efficiency	75+%	75+%	75+%
Output Ripple	1% Max.	1% Max.	1% Max.
Switching Frequency	50 kHz	50 kHz	50 kHz
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)
4-Pair Powering	_	_	_
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70℃ (-22 to 158°F)	-30 to 70°C (-22 to 158° F)	-30 to 70°C (-22 to 158° F)
Operating Humidity	35 to 95% Noncondensing	35 to 95% Noncondensing	35 to 95% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 μs) Power	1500A (8/20 µs) Power	1500A (8/20 µs) Power
Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 µs) Data	36A (10/1000 µs) Data
Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

PoE Adapters DATASHEET

Model	POE-24-12W-WH	POE-24-24W, POE-24-24W-WH	POE-24-24W-G
Dimensions	89 x 46 x 33 mm (3.48 x 1.81 x 1.30")	88 x 57 x 33 mm (3.47 x 2.24 x 1.30")	88 x 57 x 33 mm (3.47 x 2.24 x 1.30")
Weight	75 g (2.65 oz)	135 g (4.76 oz)	158.5 g (5.59 oz)
Output Voltage	24VDC @ 0.5A	24VDC @ 1.0A	24VDC @ 1.0A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	No	No	Yes
Remote Reset Capability	Yes	Yes	Yes
Reset Button	Yes	Yes	Yes
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.3A @ 120VAC, 0.2A @ 240VAC	0.6A @ 120VAC, 0.4A @ 240VAC	0.6A @ 120VAC, 0.4A @ 240VAC
Inrush Current	<30A Peak @ 120VAC, <60A Peak @ 230VAC	<60A Peak @ 120VAC, <120A Peak @ 230VAC	<60A Peak @ 120VAC, <120A Peak @ 230VAC
Efficiency	75+%	80+%	80+%
Output Ripple	1% Max.	1% Max.	1% Max.
Switching Frequency	50 kHz	65 kHz	65 kHz
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)
4-Pair Powering	-	-	-
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70°C (-22 to 158°F)	-30 to 70°C (-22 to 158°F)	-30 to 70℃ (-22 to 158°F)
Operating Humidity	35 to 95% Noncondensing	35 to 95% Noncondensing	35 to 95% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 µs) Power	1500A (8/20 µs) Power	1500A (8/20 µs) Power
Peak Pulse Current	36A (10/1000 μs) Data	36A (10/1000 μs) Data	36A (10/1000 µs) Data
Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

(3.70 × 2.36 × 1.30°) (3.70 × 2.36 × 1.30°) (3.47 × 2.24 × 1.30°) Weight 156 g (5.5 oz) 1355 g (4.78 oz) Dutput Voltage 24VDC @ 1.25A 24VDC @ 1.25A AN Activity No No ndicator No No Sigabit LAN Port Yes Yes Vers No No Bernote Reset No No and Voltage 100-240VAC @ 50/60Hz 100-240VAC @ 50/60Hz nput Current 0.6A @ 120VAC, 0.6A @ 120VAC, 0.4A @ 240VAC 0.6A @ 120VAC, 0.4A @ 240VAC nput Current 0.6A @ 120VAC, 0.6A @ 120VAC, 0.4A @ 240VAC of OA Peak @ 120VAC, <120A Peak @ 230VAC cifciency 83+% 80+% Dutput Ripple 1% Max. 1% Max. Switching Frequency 65 KHz 65 KHz oad Regulation 5 5% 5 5% ciff ciency 65 KHz 65 KHz oad Regulation 5 5% 5 5% ciff ciency 65 KHz 65 KHz oad Regulation <	Model	POE-24-30W	POE-24-30W-G-WH	POE-48-24W
Dutput Voltage24VDC @ 1.25A24VDC @ 1.25A48VDC @ 0.5AA.A Activity ndicatorNoNoNoSigabit LAN PortYesYesNoBeente Reset apabilityNoNoNoRende Reset apability100-240VAC @ 50/60Hz100-240VAC @ 50/60Hz100-240VAC @ 50/60HzAttact Voltage100-240VAC @ 50/60Hz100-240VAC @ 50/60Hz100-240VAC @ 50/60Hznput Current0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VACnrush Current.66A Peak @ 120VAC, 0.4A @ 240VAC.660A Peak @ 120VAC, <120A Peak @ 230VAC	Dimensions			
An Activity ndicatorNoNoAn Activity ndicatorNoNoSigabit LAN PortYesYesNoGapabilityNoNoNoRemote Reset capabilityNoNoNoReset Button100-240VAC © 50/60Hz100-240VAC © 50/60Hz100-240VAC © 50/60Hznput Current0.6A © 120VAC, 0.4A © 240VAC0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VACnput Current0.6A © 120VAC, 0.4A @ 240VAC.06A @ 120VAC, 0.4A @ 240VAC.06A @ 120VAC, 0.4A @ 240VACotrupt Ripple1% Max.1% Max.1% Max.otputput Ripple1% Max.1% Max.1%	Weight	156 g (5.5 oz)	156 g (5.5 oz)	135.5 g (4.78 oz)
ndicatorNONONOSigabit LAN PortYesYesNoSigabit LAN PortNoNoNoRemete Reset LapabilityNoNoNoReset ButonNoNoNoReset Buton100-240VAC 950/60Hz100-240VAC 950/60Hz100-240VAC 950/60HzAted Voltage100-240VAC 950/60Hz0.66A 9120VAC, 0.4A 9240VAC0.66A 9120VAC, 0.4A 9240VACnput Current.66A 7120VAC, 0.4A 9240VAC.66A 9120VAC, 0.4A 9240VAC.66A 9120VAC, 0.4A 9240VACnrush Current.<660A Peak @120VAC, <120A Peak @230VAC	Output Voltage	24VDC @ 1.25A	24VDC @ 1.25A	48VDC @ 0.5A
Remote Reset CapabilityNoNoRemote Reset CapabilityNoNoNoReset ButtonNoNoNoRated Voltage100-240VAC @ 50/60Hz100-240VAC @ 50/60Hz100-240VAC @ 50/60Hznput Current0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VACnrush Current.660 Peak @ 120VAC, . <td>LAN Activity Indicator</td> <td>No</td> <td>No</td> <td>No</td>	LAN Activity Indicator	No	No	No
CapabilityNoNoReset ButtonNoNoReset Button100-240VAC @ 50/60Hz100-240VAC @ 50/60Hz100-240VAC @ 50/60HzAted Voltage100-240VAC @ 50/60Hz100-240VAC @ 50/60Hz0.6A @ 120VAC, 0.4A @ 240VACnput Current0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VAC0.6A @ 120VAC, 0.4A @ 240VACnrush Current.60A Peak @ 120VAC, <120A Peak @ 230VAC	Gigabit LAN Port	Yes	Yes	No
Rated Voltage 100-240VAC © 50/60Hz 100-240VAC © 50/60Hz 100-240VAC © 50/60Hz nput Current 0.6A © 120VAC, 0.4A @ 240VAC 0.6A @ 120VAC, 0.4A @ 240VAC 0.6A @ 120VAC, 0.4A @ 240VAC nrush Current <60A Peak @ 120VAC, <120A Peak @ 230VAC <60A Peak @ 120VAC, (-120A Peak @ 230VAC <60A Peak @ 120VAC, <120A Peak @ 230VAC Stiffciency 83+% 83+% 80+% Dutput Ripple 1% Max. 1% Max. 1% Max. Switching Frequency 65 kHz 65 kHz 65 kHz Soud Regulation ≤ 3% ≤ 3% ≤ 3% Coda Regulation ≤ 0x 0x 0x (32 to 104° F) Pins 4, 5 (+) and Pins 7, 8 (-) Pins 4, 5 (+) and Pins 7, 8 (-) Pair Powering Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-) 3 to 70°C (-22 to 158° F) 3 to 70°C (-22 to 158° F) Operating Temperature 0 to 40°C (32 to 104° F) 0 to 40°C (32 to 104° F) 3 to 70°C (-22 to 158° F) Operating Humidity 35 to 95% Noncondensing 35 to 95% Noncondensing 35 to 95% Noncondensing 35 to 95% Noncondensing AC Connector IEC-320 C6 IEC-320 C6 IEC-320 C6 IEC-320 C6 Stinge Pro	Remote Reset Capability	No	No	No
North Current 0.6A @ 120VAC, 0.4A @ 240VAC 0.6A @ 120VAC, 0.4A @ 240VAC 0.6A @ 120VAC, 0.4A @ 240VAC nrush Current <60A Peak @ 120VAC, <120A Peak @ 230VAC	Reset Button	No	No	No
nput Current 0.4A @ 240VAC 0.4A @ 240VAC 0.4A @ 240VAC nrush Current <60A Peak @ 120VAC, <120A Peak @ 230VAC	Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
nrush Current <120A Peak @ 230VAC <120A Peak @ 230VAC <120A Peak @ 230VAC Efficiency 83+% 83+% 80+% Dutput Ripple 11% Max. 11% Max. 11% Max. Switching Frequency 65 kHz 65 kHz 65 kHz Switching Frequency 65 kHz 65 kHz 65 kHz Line Regulation ≤ 3% ≤ 3% ≤ 3% Coad Regulation ≤ 5% ≤ 5% ≤ 5% 2-Pair Powering Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-) Pins 4, 5 (+) and Pins 7, 8 (-) - Coarge Temperature 0 to 40° C (32 to 104° F) 0 to 40° C (32 to 104° F) 0 to 40° C (32 to 104° F) Operating Temperature 30 to 70° C (-22 to 158° F) -30 to 70° C (-22 to 158° F) -30 to 70° C (-22 to 158° F) Operating Humidity 35 to 95% Noncondensing 35 to 95% Noncondensing 35 to 95% Noncondensing AC Connector IEC-320 C6 IEC-320 C6 IEC-320 C6 IEC-320 C6 Clamping Protection Difference and Common Mode Difference and Common Mode Ifference and Common Mode Clamping Protection 111V D	Input Current			
Dutput Ripple1% Max.1% Max.Switching Frequency65 kHz65 kHz65 kHzSwitching Frequency65 kHz65 kHz65 kHzLine Regulation≤ 3%≤ 3%≤ 3%Load Regulation≤ 5%Stop 5%Stop 5%L-Pair Powering-Pins 4, 5 (+) and Pins 7, 8 (-)Pins 4, 5 (+) and Pins 7, 8 (-)L-Pair Powering0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)Deperating Temperature0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)-Storage Temperature-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POENifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerMax. Surge Discharge1500A (8/20 µs) Power1500A (8/20 µs) Power36A (10/1000 µs) Data	Inrush Current			
Switching Frequency65 kHz66 kHz65 kHzSwitching Frequency65 kHz65 kHz65 kHzsine Regulation $\leq 3\%$ $\leq 3\%$ $\leq 3\%$ coad Regulation $\leq 5\%$ $\leq 5\%$ $\leq 5\%$ coad Regulation $\leq 1\%$ Pins 1, 2, 4, 5 (+) andPins 7, 8 (-)coad Regulation $Pins 1, 2, 4, 5 (+)$ and Pins 3, 6, 7, 8 (-) $Pins 4, 5 (+)$ and Pins 7, 8 (-) $Pins 4, 5 (+)$ and Pins 7, 8 (-)coperating Temperature $0 to 40^\circ C (32 to 104^\circ F)$ coperating Temperature $-30 to 70^\circ C (-22 to 158^\circ F)$ coperating Humidity $35 to 95\%$ Noncondensing $35 to 95\%$ Noncondensing $35 to 95\%$ NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6cata IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded Socketcauge ProtectionDifference and Common ModeDifference and Common ModeIfference and Common Modeclamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerMax. Surge Discharge1500A (8/20 µs) Power36A (10/1000 µs) Data36A (10/1000 µs) Data	Efficiency	83+%	83+%	80+%
Line Regulation $\leq 3\%$ $\leq 3\%$ $\leq 3\%$ Load Regulation $\leq 5\%$ $\leq 5\%$ $\leq 5\%$ Load Regulation $\leq 5\%$ $\leq 5\%$ $\leq 5\%$ 2-Pair Powering $-$ Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-) $ -$ 1-Pair PoweringPins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-) $ -$ 0-perating Temperature0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0-perating Temperature-30 to 70° C (-22 to 158° F) -30 to 70° C (-22 to 158° F) -30 to 70° C (-22 to 158° F)0-perating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketClamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerMax. Surge Discharge1500A (8/20 µs) Power1500A (8/20 µs) Power1500A (8/20 µs) PowerPerature36A (10/1000 µs) Data36A (10/1000 µs) Data36A (10/1000 µs) Data	Output Ripple	1% Max.	1% Max.	1% Max.
Load Regulation $\leq 5\%$ $\leq 5\%$ $\leq 5\%$ 2-Pair Powering-Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)Pins 4, 5 (+) and Pins 7, 8 (-)Pins 4, 5 (+) and Pins 7, 8 (-)4-Pair Powering $Pins 1, 2, 4, 5 (+)$ and Pins 3, 6, 7, 8 (-)Operating Temperature0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)Storage Temperature-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketSurge ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power111V Data, 60V Power1500A (8/20 µs) PowerPeak Pulse Current36A (10/1000 µs) Data36A (10/1000 µs) Data36A (10/1000 µs) Data	Switching Frequency	65 kHz	65 kHz	65 kHz
P-Pair Powering-Pins 4, 5 (+) and Pins 7, 8 (-)Pins 4, 5 (+) and Pins 7, 8 (-)4-Pair PoweringPins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)Operating Temperature0 to 40° C (32 to 104° F)-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketClamping ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power1500A (8/20 µs) PowerPeak Pulse Current36A (10/1000 µs) Data36A (10/1000 µs) Data36A (10/1000 µs) Data	Line Regulation	≤ 3%	≤ 3%	≤ 3%
Prins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)Operating Temperature0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)Operating Temperature-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingOperating Humidity1EC-320 C6IEC-320 C6IEC-320 C6Operating ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power1500A (8/20 µs) PowerOperating Protection1500A (8/20 µs) Power36A (10/1000 µs) Data36A (10/1000 µs) Data	Load Regulation	≤ 5%	≤ 5%	≤ 5%
Pair PoweringPins 3, 6, 7, 8 (-)Operating Temperature0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)0 to 40° C (32 to 104° F)Storage Temperature-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)-30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketSturge ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerVax. Surge Discharge1500A (8/20 µs) Power36A (10/1000 µs) Data36A (10/1000 µs) Data	2-Pair Powering	_	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)
Storage Temperature30 to 70° C (-22 to 158° F)30 to 70° C (-22 to 158° F)30 to 70° C (-22 to 158° F)Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketSurge ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerMax. Surge Discharge1500A (8/20 µs) Power1500A (8/20 µs) Power36A (10/1000 µs) DataPeak Pulse Current36A (10/1000 µs) Data36A (10/1000 µs) Data36A (10/1000 µs) Data	4-Pair Powering		_	_
Operating Humidity35 to 95% Noncondensing35 to 95% Noncondensing35 to 95% NoncondensingAC ConnectorIEC-320 C6IEC-320 C6IEC-320 C6Data IN / POERJ45 Shielded SocketRJ45 Shielded SocketRJ45 Shielded SocketSurge ProtectionDifference and Common ModeDifference and Common ModeDifference and Common ModeClamping Protection11V Data, 60V Power11V Data, 60V Power11V Data, 60V PowerMax. Surge Discharge1500A (8/20 µs) Power1500A (8/20 µs) Power36A (10/1000 µs) DataPeak Pulse Current36A (10/1000 µs) Data36A (10/1000 µs) Data36A (10/1000 µs) Data	Operating Temperature	0 to 40° C (32 to 104° F)	0 to 40° C (32 to 104° F)	0 to 40°C (32 to 104°F)
AC Connector IEC-320 C6 IEC-320 C6 IEC-320 C6 Data IN / POE RJ45 Shielded Socket RJ45 Shielded Socket RJ45 Shielded Socket Surge Protection Difference and Common Mode Difference and Common Mode Difference and Common Mode Clamping Protection 11V Data, 60V Power 11V Data, 60V Power 11V Data, 60V Power Max. Surge Discharge 1500A (8/20 µs) Power 1500A (8/20 µs) Power 36A (10/1000 µs) Data Peak Pulse Current 36A (10/1000 µs) Data 36A (10/1000 µs) Data 36A (10/1000 µs) Data	Storage Temperature	-30 to 70° C (-22 to 158° F)	-30 to 70° C (-22 to 158° F)	-30 to 70°C (-22 to 158° F)
Data IN / POE RJ45 Shielded Socket RJ45 Shielded Socket RJ45 Shielded Socket Surge Protection Difference and Common Mode Difference and Common Mode Difference and Common Mode Clamping Protection 11V Data, 60V Power 11V Data, 60V Power 11V Data, 60V Power Max. Surge Discharge 1500A (8/20 µs) Power 1500A (8/20 µs) Power 1500A (8/20 µs) Power Peak Pulse Current 36A (10/1000 µs) Data 36A (10/1000 µs) Data 36A (10/1000 µs) Data	Operating Humidity	35 to 95% Noncondensing	35 to 95% Noncondensing	35 to 95% Noncondensing
Surge Protection Difference and Common Mode Difference and Common Mode Difference and Common Mode Clamping Protection 11V Data, 60V Power 11V Data, 60V Power 11V Data, 60V Power Max. Surge Discharge 1500A (8/20 µs) Power 1500A (8/20 µs) Power 1500A (8/20 µs) Power Peak Pulse Current 36A (10/1000 µs) Data 36A (10/1000 µs) Data 36A (10/1000 µs) Data	AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Clamping Protection 11V Data, 60V Power 11V Data, 60V Power 11V Data, 60V Power Max. Surge Discharge 1500A (8/20 µs) Power 1500A (8/20 µs) Power 1500A (8/20 µs) Power Peak Pulse Current 36A (10/1000 µs) Data 36A (10/1000 µs) Data 36A (10/1000 µs) Data	Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Max. Surge Discharge 1500A (8/20 µs) Power 1500A (8/20 µs) Power 1500A (8/20 µs) Power 1500A (8/20 µs) Power 36A (10/1000 µs) Data 36A (10/1000 µs) Data	Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Peak Pulse Current 36A (10/1000 μs) Data 36A (10/1000 μs) Data 36A (10/1000 μs) Data	Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
	Max. Surge Discharge	1500A (8/20 µs) Power	1500A (8/20 µs) Power	1500A (8/20 µs) Power
Shunt Capacitance <5 pF data <5 pF data <5 pF data	Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 µs) Data	36A (10/1000 µs) Data
	Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time <1 ns <1 ns <1 ns	Response Time	<1 ns	<1 ns	<1 ns
Certifications CE, FCC, IC, UL CE, FCC, IC, UL CE, FCC, IC, UL	Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

Model	POE48-24W-G	POE-24-24W-G-WH	U-POE-af
Dimensions	92 x 60 x 33 mm (3.62 x 2.36 x 1.30")	96 x 62 x 35 mm (3.78 x 2.44 x 1.38")	86 x 46 x 33 mm (3.39 x 1.81 x 1.30")
Weight	158.5 g (5.59 oz)	166 g (5.86 oz)	100 g (3.53 oz)
Output Voltage	48VDC @ 0.5A	24VDC @ 1.0A	48VDC @ 0.32A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	Yes	Yes	Yes
Remote Reset Capability	No	Yes	No
Reset Button	No	Yes	No
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.6A @ 120VAC, 0.4A @ 240VAC	750mA @ 90VAC	500mA @ 90VAC
Inrush Current	<65A Peak @ 120VAC, <130A Peak @ 230VAC	<100A Peak @ 25°C	<100A Peak @ 25°C
Efficiency	80+%	86.2+%	84.25+%
Output Ripple	1% Max.	200mV p-p	200mV p-p
Switching Frequency	65 kHz	65 kHz	65 kHz
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)
4-Pair Powering	-	-	-
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70℃ (-22 to 158°F)	-30 to 70°C (-22 to 158°F)	-30 to 70°C (-22 to 158°F)
Operating Humidity	35 to 95% Noncondensing	5 to 90% Noncondensing	5 to 90% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 μs) Power	1500A (8/20 µs) Power	1500A (8/20 µs) Power
Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 μs) Data	36A (10/1000 μs) Data
Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

Model	POE-48-24W-WH	POE-48-24W-G-WH	POE-50-60W, POE-50-60W-WH
Dimensions	93 x 59 x 33 mm (3.66 x 2.32 x 1.30")	96 x 62 x 35 mm (3.78 x 2.44 x 1.38")	101 x 60 x 33 mm (3.98 x 2.36 x 1.30")
Weight	145 g (5.12 oz)	166 g (5.86 oz)	192 g (6.77 oz)
Output Voltage	48VDC @ 0.5A	48VDC @ 0.5A	50VDC @ 1.2A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	No	Yes	Yes
Remote Reset Capability	No	No	No
Reset Button	No	No	No
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.6A @ 120VAC, 0.4A @ 240VAC	0.6A @ 120VAC, 0.4A @ 240VAC	1.3A @ 120VAC, 0.75A @ 230VAC
Inrush Current	<60A Peak @ 120VAC, <120A Peak @ 230VAC	<65A Peak @ 120VAC, <130A Peak @ 230VAC	<100A Peak @120VAC, <200A Peak @ 230VAC
Efficiency	80+%	80+%	85+%
Output Ripple	1% Max.	1% Max.	1% Max.
Switching Frequency	65 kHz	65 kHz	65 kHz
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	Pins 4, 5 (+) and Pins 7, 8 (-)	Pins 4, 5 (+) and Pins 7, 8 (-)	_
4-Pair Powering	_	_	Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70°C (-22 to 158°F)	-30 to 70°C (-22 to 158° F)	-30 to 70°C (-22 to 158° F)
Operating Humidity	5 to 90% Noncondensing	35 to 95% Noncondensing	35 to 95% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 μs) Power	1500A (8/20 µs) Power	1500A (8/20 μs) Power
Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 μs) Data	36A (10/1000 µs) Data
Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

Model	POE-54-80W	POE-24-AF5X	U-POE-at
Dimensions	123 x 65 x 34 mm (4.84 × 2.56 × 1.34")	88 x 57 x 33 mm (3.47 x 2.24 x 1.30")	93 x 62 x 35 mm (3.66 x 2.44 x 1.38")
Weight	299 g (10.55 oz)	158.5 g (5.59 oz)	156 g (5.5 oz)
Output Voltage	54VDC @ 1.5A	24VDC @ 1.0A	48VDC @ 0.65A
LAN Activity Indicator	No	No	No
Gigabit LAN Port	Yes	Yes	Yes
Remote Reset Capability	No	No	No
Reset Button	No	No	No
Rated Voltage	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Input Current	0.8A @ 120VAC, 0.4A @ 240VAC	0.6A @ 120VAC, 0.4A @ 240VAC	0.75A@90VAC
Inrush Current	<80A Peak @ 120VAC, <120A Peak @ 230VAC	<60A Peak @ 120VAC, <120A Peak @ 230VAC	<100A Peak @230VAC, 26 $^\circ\!\!\!\mathbb{C}$
Efficiency	87+%	80+%	87+%
Output Ripple	1% Max.	1% Max.	1% Max.
Switching Frequency	100 kHz Max.	65 kHz	70 kHz Max.
Line Regulation	≤ 3%	≤ 3%	≤ 3%
Load Regulation	≤ 5%	≤ 5%	≤ 5%
2-Pair Powering	-	_	Pins 4, 5 (+) and Pins 7, 8 (-)
4-Pair Powering	Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)	Pins 1, 2, 4, 5 (+) and Pins 3, 6, 7, 8 (-)	-
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-30 to 70°C (-22 to 158°F)	-30 to 70°C (-22 to 158° F)	-30 to 70℃ (-22 to 158°F)
Operating Humidity	35 to 95% Noncondensing	35 to 95% Noncondensing	35 to 95% Noncondensing
AC Connector	IEC-320 C6	IEC-320 C6	IEC-320 C6
Data IN / POE	RJ45 Shielded Socket	RJ45 Shielded Socket	RJ45 Shielded Socket
Surge Protection	Difference and Common Mode	Difference and Common Mode	Difference and Common Mode
Clamping Protection	11V Data, 60V Power	11V Data, 60V Power	11V Data, 60V Power
Max. Surge Discharge	1500A (8/20 µs) Power	1500A (8/20 μs) Power	1500A (8/20 µs) Power
Peak Pulse Current	36A (10/1000 µs) Data	36A (10/1000 µs) Data	36A (10/1000 µs) Data
Shunt Capacitance	<5 pF data	<5 pF data	<5 pF data
Response Time	<1 ns	<1 ns	<1 ns
Certifications	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

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