



**POE-SPLT**  
**Active Splitters**

**DATA SHEET**

**POE Splitter / Voltage Converter**

**Features**

- Converts PoE input to DC or AC output
- Outputs up to 80W
- POE-SPLT-2424AC Runs cameras and other 24VAC 40W devices from 24VDC PoE and battery systems
- POE-SPLT-4824AC Runs cameras and other 24VAC 80W devices from 48VDC PoE and battery systems
- POE-SPLT-48xxG Provides 12VDC or 5VDC 25W from standard 802.3at PoE input
- Short Circuit, Over Current and Over Voltage Protection
- High Temperature Operation



**Description**

The POE-SPLT Active splitters are unique Power over Ethernet adapters which converts a DC PoE input voltage to AC or DC regulated output voltages. The output is provided on a standard 5.5mm/2.1mm barrel connector on a 14" cable or in the case of the 80W unit, on a wire terminal connector. Ethernet speeds of 10/100MB and 10/100/1000MB are available. Inputs and outputs are isolated. They have various protections for surge, short circuit, overload and overvoltage.

**Device Pinouts – 10/100MB**

RJ-45 Input (Data + Power)			RJ-45 Output (Data)	
Pin	Symbol	Description	Symbol	Description
1	RX+ / Vin+-	Data Receive(+) & Power	RX+	Data Receive(+)
2	RX- / Vin+-	Data Receive(-) & Power	RX-	Data Receive(-)
3	TX+ / Vin+-	Data Transmit(+) & Power	TX+	Data Transmit(+)
4	Vin+-	Power	NC	No Connection
5	Vin+-	Power	NC	No Connection
6	TX- / Vin+-	Data Transmit(-) & Power	TX-	Data Transmit(-)
7	Vin+-	Power	NC	No Connection
8	Vin+-	Power	NC	No Connection

**Device Pinouts – 10/100/1000MB**

RJ-45 Input (Data & Power)			RJ-45 Output (Data)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+, Vin +/-	Data RX+ / Power(+/-)	BI_DA+	Data RX(+)
2	BI_DA-, Vin +/-	Data RX- / Power(+/-)	BI_DA-	Data RX(-)
3	BI_DB+, Vin +/-	Data TX+ / Power(+/-)	BI_DB+	Data TX(+)
4	BI_DC+, Vin +/-	Data RX+ / Power(+/-)	BI_DC+	Data RX(+)
5	BI_DC-, Vin +/-	Data RX- / Power(+/-)	BI_DC-	Data RX(-)
6	BI_DB-, Vin +/-	Data TX- / Power(+/-)	BI_DB-	Data TX(-)
7	BI_DD+, Vin +/-	Data RX+ / Power(+/-)	BI_DD+	Data RX(+)
8	BI_DD-, Vin +/-	Data RX- / Power(+/-)	BI_DD-	Data RX(-)

**Specifications**

	POE-SPLT-2424AC	POE-SPLT-4824AC	POE-SPLT-4812G	POE-SPLT-4805G
<b>Output Voltage</b>	24VAC	24VAC	12VDC	5VDC
<b>Output Current</b>	1.7A @ 24VAC	3.34A @24VAC	2.1A @ 12VDC	5A @ 5VDC
<b>Output Power</b>	40W	80W	25W	25W
<b>Output Connector</b>	5.5mm / 2.1mm Barrel Connector	Wire Terminal (12AWG)	5.5mm / 2.1mm Barrel Connector	5.5mm / 2.1mm Barrel Connector
<b>Output Cable Length</b>	355mm (14")	n/a	355mm (14")	355mm (14")
<b>Load Regulation</b>	5%	5%	5%	5%
<b>Line Regulation</b>	1%	1%	1%	1%
<b>POE Input (RJ45)</b>	18 – 36VDC (4 pairs)	40 - 60VDC (4 pairs)	802.3at 48VDC (4 pairs)	802.3at 48VDC (4 pairs)
<b>Ethernet Speed</b>	10/100MB	10/100/1000MB	10/100/1000MB	10/100/1000MB
<b>Efficiency</b>	75% Min	80% Min	86% Min	86% Min
<b>LED Function</b>	Green = Power On	PWR1 Solid = 4 Pair Power PWR1 Flash = 2 Pair Power PWR2 = Output On	Red = 802.3af Input Green = 802.3at Input	
<b>EMC Standards</b>	FCC Class B NE55022 Class B			
<b>Isolation Voltage</b>	1500VDC			
<b>Isolation Resistance</b>	100M Ohms Minimum			
<b>Operating Temperature</b>	-20 to +60°C (-4 to +140°F)		-40 to + 70°C (-40 to 158°F)	
<b>Operating Humidity (RH)</b>	5% - 90% non condensing			
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)			
<b>Dimensions (LxWxH)</b>	125 x 75 x 38mm (4.9 x 3 x 1.5")	150 x 140 x 40mm (5.9 x 5.5 x 1.6")	85 x 75 x 36mm ( 3.3 x 3 x 1.4" )	
<b>Weight</b>	190g (6.7oz)	350g (12oz)	150g (5.3oz)	
<b>Warranty</b>	3 Years			



POE-SPLT-2424AC



POE-SPLT-4824AC



POE-SPLT-48xxG

**System Ordering:****POE-SPLT-2424AC****POE-SPLT-4824AC****POE-SPLT-4812G****POE-SPLT-4812G**

PoE Splitter/Voltage Converter 24V PoE Input to 24VAC 40W output  
 PoE Splitter/Voltage Converter 56V PoE Input to 24VAC 80W output  
 PoE Splitter/Voltage Converter 802.3at PoE Input to 12VDC 25W output  
 PoE Splitter/Voltage Converter 802.3at PoE Input to 5VDC 25W output

**For further information contact:**

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