

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



POE-SPLT-2424AC
PoE Converter/Splitter

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
Output Voltage	24VAC	24VAC	12VDC	5VDC
Output Current	1.7A @ 24VAC	3.34A @24VAC	2.1A @ 12VDC	5A @ 5VDC
Output Power	40W	80W	25W	25W
Output Connector	5.5mm / 2.1mm Barrel Connector	Wire Terminal (12AWG)	5.5mm / 2.1mm Barrel Connector	5.5mm / 2.1mm Barrel Connector
Output Cable Length	355mm (14")	n/a	355mm (14")	355mm (14")
Load Regulation	5%	5%	5%	5%
Line Regulation	1%	1%	1%	1%
POE Input (RJ45)	18 – 36VDC (4 pairs)	40 - 60VDC (4 pairs)	802.3at 48VDC (4 pairs)	802.3at 48VDC (4 pairs)
Ethernet Speed	10/100MB	10/100/1000MB	10/100/1000MB	10/100/1000MB
Efficiency	75% Min	80% Min	86% Min	86% Min
EMC Standards	FCC Class B NE55022 Class B			
Isolation Voltage	1500VDC			
Isolation Resistance	100M Ohms Minimum			
Operating Temperature	-20 to +60°C (-4 to +140°F)		-40 to + 70°C (-40 to 158°F)	
Operating Humidity (RH)	5% - 90% non condensing			
Storage Temperature	-40 to +80°C (-40 to +176°F)			
Dimensions (LxWxH)	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")	
Weight	190g (6.7oz)	350g (12oz)	150g (5.3oz)	
Warranty	1 Year			



POE-SPLT-2424AC



POE-SPLT-4824AC



POE-SPLT-48xxG

System Ordering:

POE-SPLT-2424AC

PoE Splitter/Voltage Converter 24V PoE Input to 24VAC 40W output

POE-SPLT-4824AC

PoE Splitter/Voltage Converter 56V PoE Input to 24VAC 80W output

POE-SPLT-4812G

PoE Splitter/Voltage Converter 802.3at PoE Input to 12VDC 25W output

POE-SPLT-4812G

PoE Splitter/Voltage Converter 802.3at PoE Input to 5VDC 25W output

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