



## ES-DCPOE

DH-0011-00-01-00

The ES-DCPOE series of DC to DC Power over Ethernet Solutions offered by Ecosmart Solar are the low cost, high efficiency solution for those requiring IEEE802.3af and IEEE802.3at or Passive Power over Ethernet from a 12VDC or 24VDC voltage source like a battery system. These PoE's are provided with Integrated DC-DC converters and Power Transfer mechanism with the output voltage is regulated and protected as per 802.3af/at to apply the power and data output to the CAT5 Ethernet cable. They accept 10/100/1000 Mbps data-in to a shielded RJ45 Jack and provide 10/100/1000 Mbps data-out and PoE power on the shielded RJ45 output jack. They work by supplying power on Ethernet pins 4, 5(V+) and 7, 8(V-). They have various protections for surge, short circuit and overload.

### Features:

- \* Input Voltage 9VDC to 36VDC
- \* IEEE 802.3af/at Compliant or Passive PoE Output
- \* Integrated 10/100/1000Mbps PoE Injector
- \* Maximum Power up to 30W
- \* Low Self Power Consumption
- \* Short Circuit, Over Current and Reverse/Over Voltage Protect
- \* High Temperature Operation



### Applications:

- \* 12V / 24V Battery Systems
- \* Wireless Access Points and Client Devices
- \* IP Phone and Security Camera Systems

### POE Pinout:

RJ-45 Input (Data)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	-	-	+Vdc out	DC power(+) to device
5	-	-	+Vdc out	DC power(+) to device
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	-	-	-Vdc out	DC power(-) to device
8	-	-	-Vdc out	DC power(-) to device

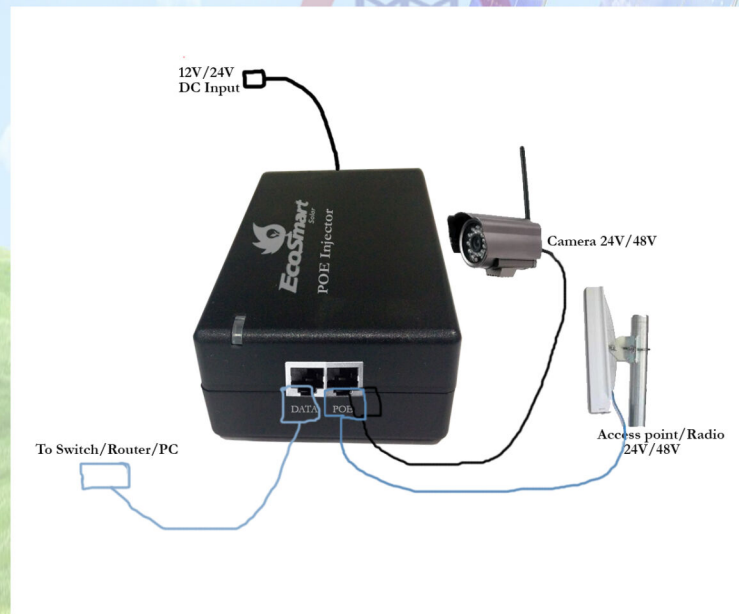
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## Specifications:

Specification	ES-DCPOE-1224	ES-DCPOE-1248	ES-DCPOE-1248
Input Voltage	9-36V DC	9-36V DC	9-36VDC
Input Connector	DC Jack		
Out Put Voltage	24V DC	48V DC	48V DC
PoE Standard	Passive		802.3 af/at
Data Inout	RJ45 Jack		
Data speed	10/100Mbps		10/100/1000Mbps
Out Put Current (Max)	0.8A	0.5A	0.6A
Output Power (Max)	19W	24W	30W
Self Consumption Power	1W		
Short Circuit protection	Yes		
Over load protection	No		Yes
Surge protection	Yes		
LED Power Indicator	PWR/Ready – 1 LED		
LED PoE Indicator	-		Blue on : PoE Device link Blue blinking : Detecting PoE device Blue off: No device detected
Operating temperature	-30 to +55 deg C		

## Connection Diagram:



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