

## Power-over-Ethernet Modular Power Supply

### Key Features:

- High Input to Output isolation.
- 300 kHz switching frequency (typical).
- MOSFET design.

### Specifications:

**Input Voltage:** 48 VDC (RJ45 connector)

**Output:**

Line Voltage Regulation:	± 0.5% maximum (0.2% representative)
Load Regulation:	± 1.0% maximum (0.5% representative)
Temperature Coefficient:	±0.02% per °C
Efficiency:	70% (minimum)

**Protection:**

Isolation Voltage (input - output):	2,000 VDC
Dielectric Resistance (input – output):	50 M ohm @ 500VDC
Short circuit/ Overload protection:	Continuous, auto recovery

**Environmental:**

Operating Temperature:	-10°C to +50°C
Storage Temperature:	-30°C to +80°C
Humidity (non-condensing):	95% RH

**Physical:**

PCB Mounted:	Asymmetrical PIH mounting
Weight:	38 grams (1.3 oz)

RoHS Compliant.



Model	Output Voltage	Output Current	Ripple/ Noise (p-p, 20 MHz bandwidth)
POE10S-48S03	+3.3VDC ± 3%	3.0A	< 50mV p-p
POE10S-48S05	+5.0VDC ± 3%	2.0A	< 50mV p-p
POE10S-48S09	+9.0VDC ± 3%	1.1A	< 50mV p-p
POE10S-48S12	+12VDC ± 3%	0.8A	< 80mV p-p
POE10S-48S24	+24VDC ± 3%	0.4A	< 100mV p-p

**Custom power supply designs** are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to [engineering@tichenassociates.com](mailto:engineering@tichenassociates.com) or the address below.