

# Vi10240

## 240W Hardened Din Rail Power Supply

### Features

- High efficiency up to 93% with universal AC input range (85~264Vac)
- 240W output at 48~56VDC with 150% (360W) peak load capacity
- Hardened with wide operating temp -25°C~70°C
- Support 1+1 or N+1 redundant system
- Built-in current sharing function
- Built in DC OK relay contact
- Output protections: OVP/OLP/SCP/OTP
- Easy Fuse Tripping due to High Overload Current
- 100% full load burn-in test
- Free air convection



### Applications

- Transportation, Perimeter applications
- PoE applications requiring wide operating temperature
- Applications requiring back up power
- Outdoor, transit, perimeter, and parking lot applications

Vigtron's MaxiiPower™ Vi10240 Din Rail Power Supply is designed for hardened applications. A wide operating temperature range of -25°C to 70°C assures reliable operation for many mission critical operations. It provides many features designed for its own protection and connection to the device its powering. The Vi10240's combined a 150% peak load up to 360W, over current protection and current limiting will protect itself and powered devices. An alarm relay provides notification in the event of failures. Outputs of multiple Vi10240s can be connected together to increase the total power or serve as a back up supply. Multiple DIN Rail mountings simplifies installation.

The Vigtron Vi10240 can be configured for a wide variety of applications to provide both additive and back up power.

# Technical Specifications\*

## Electrical

### Output:

Output Power	240W, 48-56VDC (Adjustable) @ 5A Max.
Ripple and Noise	≤480mV at 0~70°C ≤480mV at -25°C
Voltage Accuracy	±3.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Set-up Time	<3S@230VAC
Hold up Time	≥20mS (230VAC input, Full load)
Temperature Coefficient	±0.03%/°C
Overshoot / Undershoot	<5.0%

### Input:

Voltage Range	85VAC~264VAC, 130VDC-350VDC
Frequency Range	47Hz~63Hz
Power Factor	0.99/110VAC, 0.95/230VAC
Efficiency	93%
AC Current	<3.0 A/100VAC, <1.5A/230VAC (max.)
Inrush Current	<20A/110VAC, <40A/230VAC Cold start
Leakage Input-output	Input-Output <0.25mA, Input-PG:<3.5mA

### Protection:

Over Load	110%~150% of rated current, Auto recovery
Over voltage	58~63VDC, constant voltage, Auto recovery
Over temperature	105±5°C, shut down O/P, Auto recovery
Short Circuit	Long-term mode, Auto recovery
DC-OK LED	On: when output is up to 90% of rated output voltage Off: when output is down to 80% of rated output voltage
DC-OK Relay	Max 30V/1A or 60V/0.3A or 30Vac/0.3A, Resistive load

## Regulatory

Safety	UL508, UL60950, EN60950, CE
EMC Emission	EN55022, EN55024, FCC PART 15 Class B
EMC Immunity	EN61000-4-2,3,4,5,6,8,11; heavy industry level
Environmental	RoHS, WEEE

## Environmental

Humidity	Operating: 20 to 90%, non-condensing Storage: 5 to 95%, non-condensing
Temperature	Operating: -25°C to +70°C Storage: -40°C to +85°C

## Mechanical

Dimensions	4.68x1.77x4.9in, 119x45x124mm (LxWxH)
Weight	1.72 lbs (780g)
Material	Sheet Metal

\*Specifications subject to change without notice.

## Ordering Information

Part No.	Description
<b>Vi10240</b>	<b>240W Din Rail Power Supply</b>



**VIGITRON**

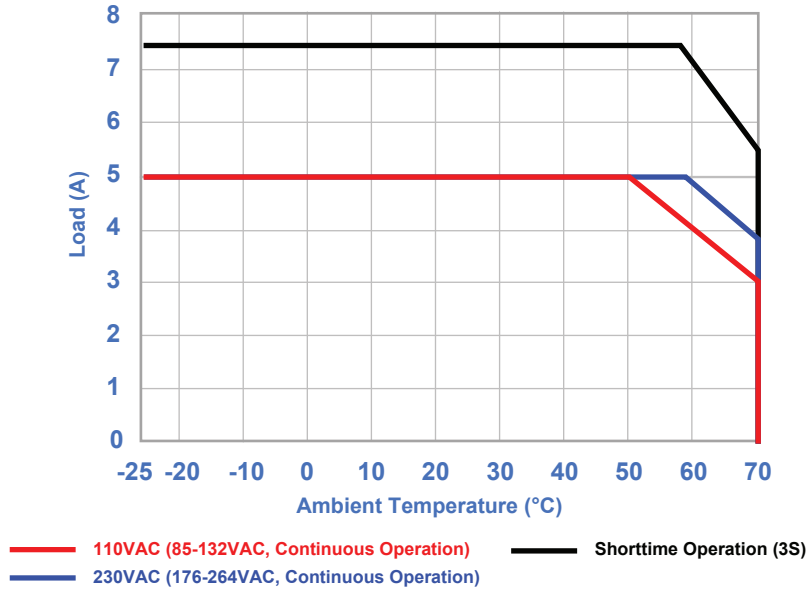
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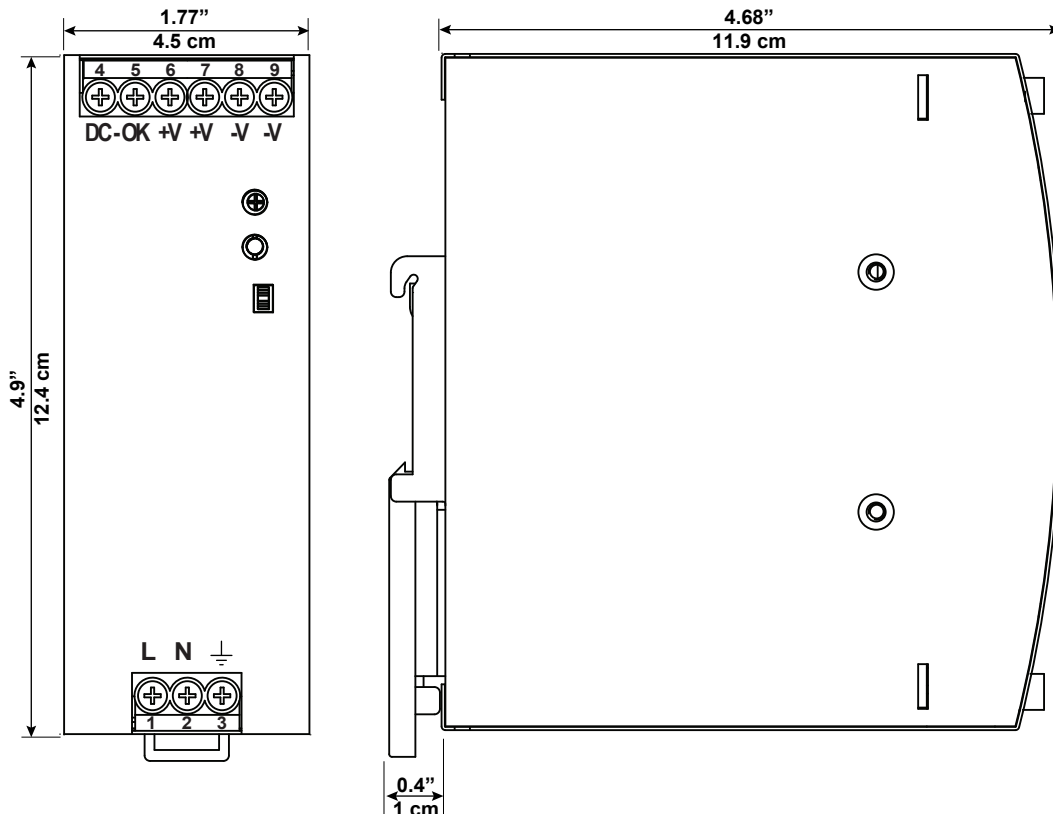
# Technical Specifications\*

## De-Rating Chart

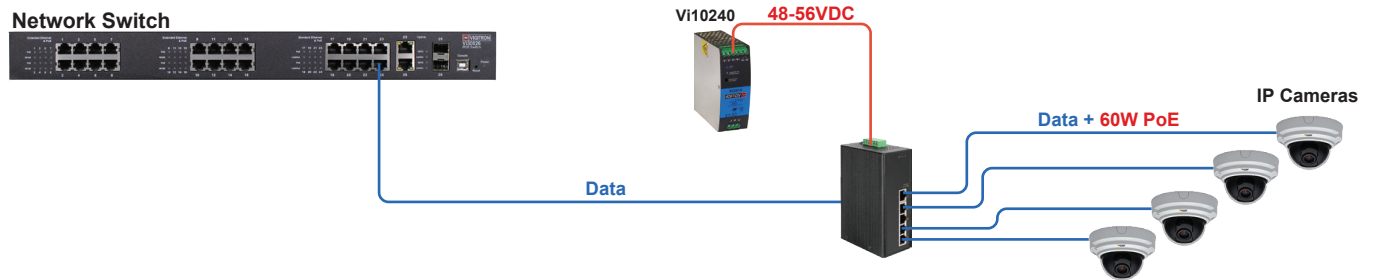


(Continuous Operation)

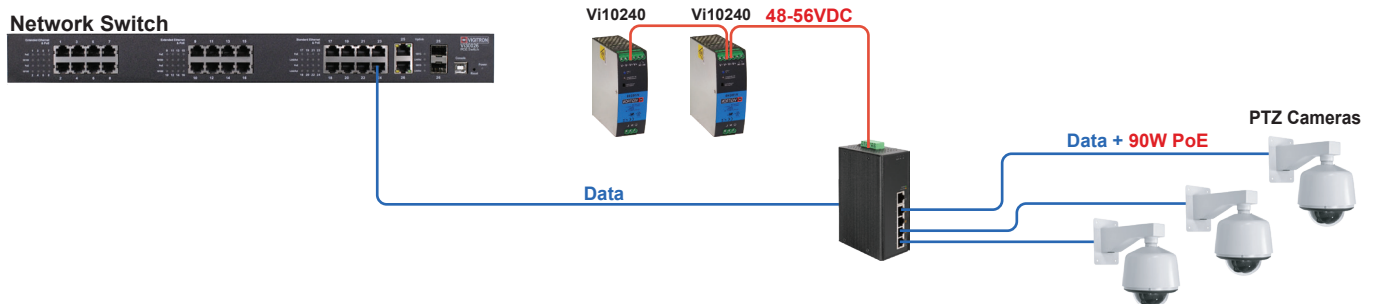
## Mechanical Drawings



# Application Diagrams



*The Vi10240 can be used to power a wide variety high power PoE switches and Midspans.*



*Multiple Vi10240 can share current to power a wide variety high PoE power PoE switches or Midspans. Also can be used as redundant power supply.*