

Vi10120

120W Hardened Din Rail Power Supply

Features

- High efficiency up to 92% with universal AC input range (85~264Vac)
- 120W output at 48~56VDC with 150% (180W) 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

Vigatron's MaxiiPower™ Vi10120 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 Vi10120's combined a 150% peak load up to 180W, 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 Vi10120s can be connected together to increase the total power or serve as a back up supply. Multiple DIN Rail mountings simplifies installation.

The Vigatron Vi10120 can be configured for a wide variety of applications to provide both additive and back up power.

Technical Specifications*

Electrical

Output:

Output Power	120W, 48-56VDC (Adjustable) @ 2.5A Max.
Ripple and Noise	≤240mV at 0~70°C ≤240mV at -25°C
Voltage Accuracy	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Set-up Time	<250mS@230VAC, <500mS@100VAC
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	0.99/100VAC, 0.95/230VAC
Efficiency	92%
AC Current	<1.5A/100VAC, <0.65A/230VAC (max.)
Inrush Current	<30A/100VAC, <60A/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	58~65VDC, constant voltage, Auto recovery
Over temperature	100±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	4.68x1.26x4.88in, 119x32x124mm (LxWxH)
Weight	1.3 lbs (590g)
Material	Sheet Metal

*Specifications subject to change without notice.

Ordering Information

Part No.	Description
Vi10120	120W Din Rail Power Supply



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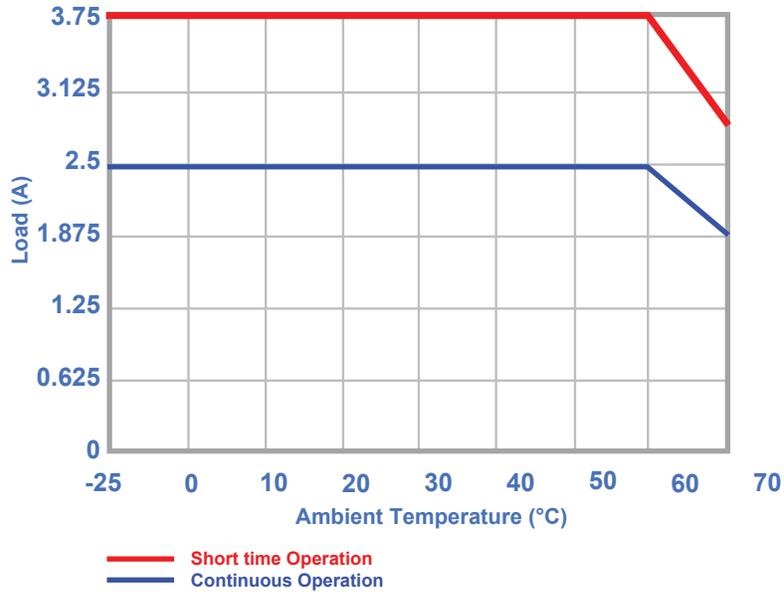
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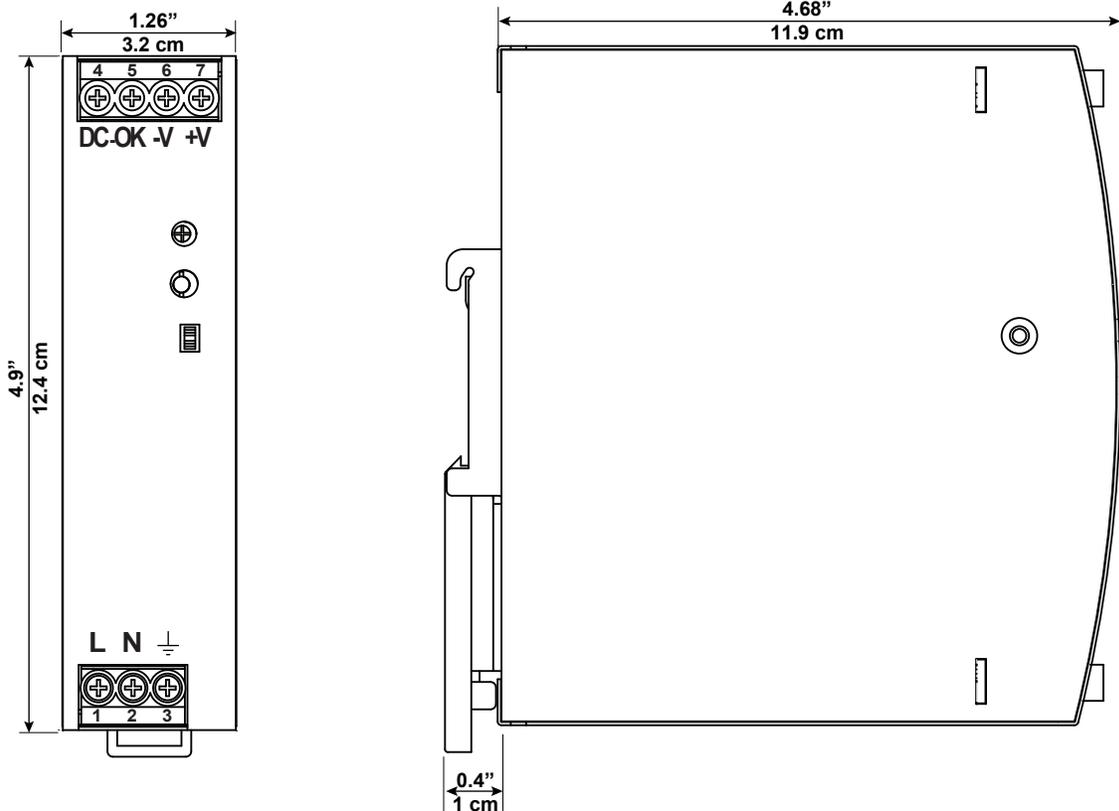
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Technical Specifications*

De-Rating Chart



Mechanical Drawings

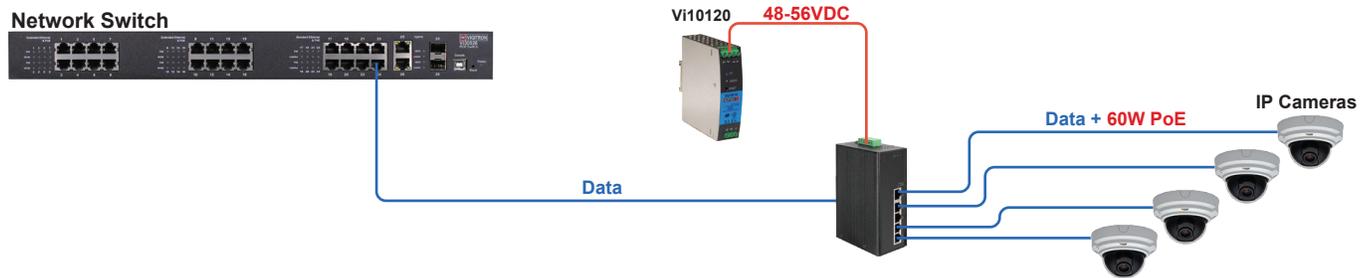


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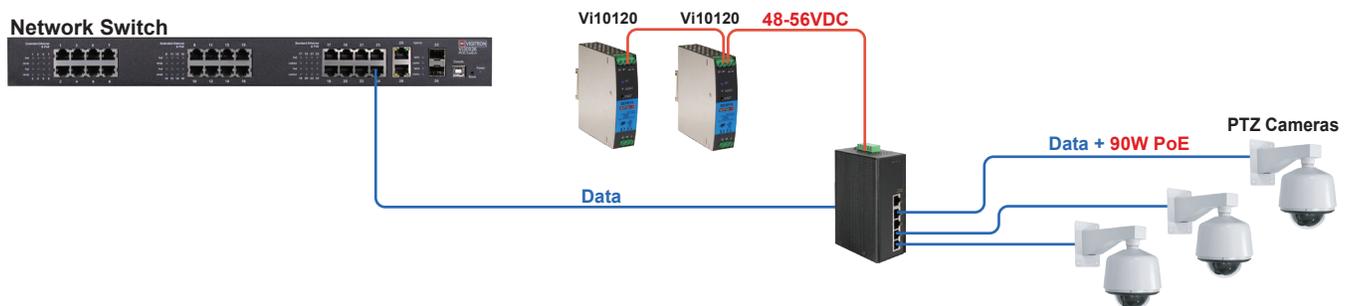
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Application Diagrams



The Vi10120 can be used to power a wide variety high power PoE switches and Midspans.



Multiple Vi10120 can share current to power a wide variety high PoE power PoE switches or Midspans. Also can be used as redundant power supply.