

## Gigabit PoE + Injector | For Z100, Z500 and X20

### Specifications

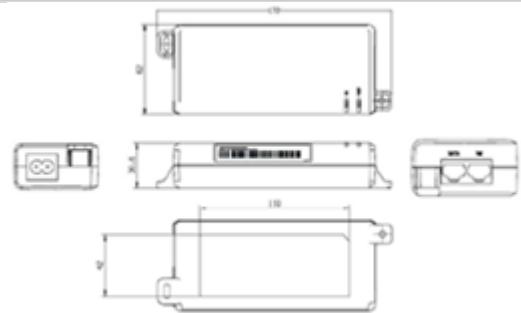
| Input                      |  |
|----------------------------|--|
| Rated Voltage              | 100 to 240 VAC   |
| Variation Voltage          | 90 to 270 VAC  |
| Rated Frequency            | 50 to 60 Hz  |
| Variation Frequency        | 47 to 63 Hz  |
| Input Current              | 1A rms (Max. 100 VAC input full load)  |
| Output                     |  |
| Output Voltage             | +54 VDC  |
| Output Current             | 0.65 A (Max., Continuous Load)   |
| Output Power               | 35 W (Max.)  |
| Line Regulation            | ±5%  |
| Ripple and Noise           | 200 mV p-p (Max.)  |
| Efficiency                 | 80% (Full load, Typical, 230 VAC Input)  |
| Surge                      | 4 KV (PoE-AC; PoE-Data; AC-Data)<br>4 KV (AC line to line)<br>500 V (PoE line to line (48V-RTN)) |
| Switching Frequency        | 65 KHz (Typ.)  |
| Compatibility              | 802.3at/af Compliant   |
| Data                       | 1000 Mbps Ethernet, Full Duplex  |
| Output Voltage             | +54 VDC  |
| Protection                 |  |
| Short Circuit Protection   | Yes (When Current is 0.7 to 0.79 A)  |
| Over Current Protection    | Yes (When Current is 0.7 to 0.79 A)  |
| Overage Voltage Protection | Yes, With Auto-recovery  |
| Environmental              |  |
| Operating Temperature      | -10 °C to +50 °C; 25°C (Typ.)  |
| Storage Temperature        | -40 °C to +70 °C; 25°C (Typ.)  |
| Relative Humidity          | 5 to 95%   |
| Cooling                    | Convention Cooling   |
| Altitude                   | 5,000 m Above Sea Level  |
| Safety                     |  |
| Dielectric Strength        | 3,000 VAC/ 10 mA/ 1 minute   |
| Insulation Resistance      | 100 MΩ (Min., @500 VDC)  |
| Leakage Current            | 0.25 mA (Max., @240 VAC)   |
| Safety Standards           | IEC60950, EN60950, UL60950, AS/NZS 4417  |
| EMC                        | FCC Class B, EN55022 Class B   |
| RoHS                       | EU2011/65/EU, China SJ/T11363-2006   |
| Reliability                |  |
| MTBF                       | 100,000 hours (@25°C ambient)  |



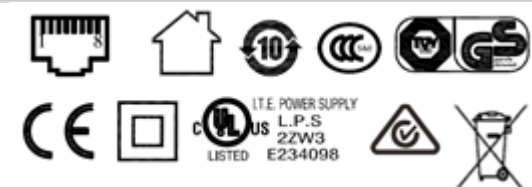
#### Mechanical

|                        |   |
|------------------------|---|
| Dimensions             | 172 x 62 x 31 mm  |
| Weight                 | 250 g   |
| Input Power Receptacle | IEC 320/C8  |
| Data                   | Unshielded RJ45, EIA 568A+568B  |
| RJ-45 Pin Connections  | Input: Pin 1 to 8: Data<br>Output: Pin 1, 2, 4, 5: +VDC & Data<br>Pin 3, 6, 7, 8: -VDC & Data |
| LEDs                   | PORT (Green = PoE OK);<br>AC (Green = Power OK)   |

#### Diagram



#### Product Label



#### Ordering Information

Part Number: GE.PW-AT00-00

Gigabit PoE Injector For Z100, Z500 and X20 Series

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# Gigabit PoE + Injector with Power Cords

For Z100, Z500 and X20

## Specifications

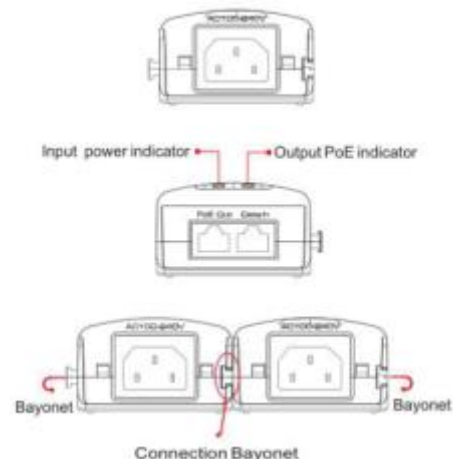
| Input                      |   |
|----------------------------|---|
| Rated Voltage              | 100 to 240 VAC  |
| Variation Voltage          | 90 to 264 VAC   |
| Rated Frequency            | 50 to 60 Hz   |
| Variation Frequency        | 47 to 63 Hz   |
| Input Current              | 1 A (Max., 100 VAC input)   |
| Output                     |   |
| Output Voltage             | +54 VDC   |
| Output Current             | 0.55 A (Max.)   |
| Output Power               | 30 W (Max.)   |
| Line Regulation            | ±3%   |
| Ripple and Noise           | 150 mV p-p (Max.)   |
| Efficiency                 | 85% (Min.)  |
| Surge                      | 6 kV (PoE-GND; Data-GND)<br>2 kV (PoE and Data Line to Line)<br>2 kV (AC-GND) |
| Switching Frequency        | 65 KHz (Typ.)   |
| Compatibility              | 802.3af/at Compliant  |
| Data                       | 1000 Mbps Ethernet, Full Duplex   |
| Protection                 |   |
| Short Circuit Protection   | Yes   |
| Over Current Protection    | Yes   |
| Overage Voltage Protection | Yes, with Auto-recovery   |
| Environmental              |   |
| Operating Temperature      | -10 °C to +55 °C; 25 °C (Typ.)  |
| Storage Temperature        | -40 °C to +85 °C; 25 °C (Typ.)  |
| Relative Humidity          | 5 to 95% (Non-condensing)   |
| Cooling                    | Convention Cooling  |
| Altitude                   | 2,000 m above sea level   |
| Safety                     |   |
| Dielectric Strength        | 3,000 VAC/ 10 mA/ minute  |
| Insulation Resistance      | 100 MΩ  |
| Leakage Current            | 0.25 mA   |
| Safety Standards           | IEC60950  |
| EMC                        | FCC Class B, EN55022 Class B  |
| RoHS                       | 2011/65/EU  |
| Reliability                |   |
| MTBF                       | 150,000 hours   |



### Mechanical

|                        |   |
|------------------------|---|
| Dimensions             | 160 x 64 x 38 mm  |
| Weight                 | 200 g   |
| Input Power Receptacle | IEC 320/C13   |
| Data                   | Shielded RJ45, EIA 568A+568B  |
| RJ-45 Pin Connections  | Input: Pin 1 to 8: Data;<br>Output: Pin 1, 2: +VDC & Data;<br>Pin 3, 6: -VDC & Data |
| LEDs                   | Power (Red = AC Power OK);<br>PoE (Orange = PoE OK)                                 |

### Diagram



### Product Label



### Ordering Information

Part Number: GE.PW-7201-00  
Gigabit PoE+ Injector for Z100, Z500 and X20 Series  
- US, UK and EU Power Cords

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# High Power PoE Injector for X30

Model PT-PSE106GW-AR

## Specifications

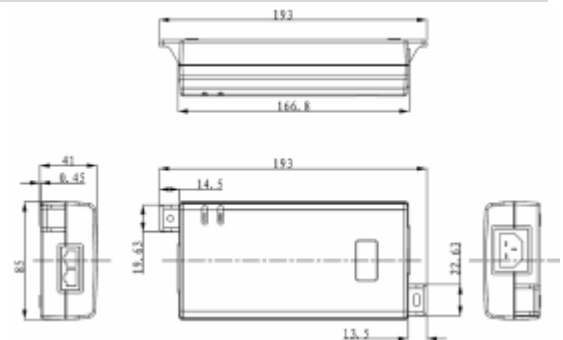
| Input                      |  |
|----------------------------|--|
| Rated Voltage              | 100 to 240 VAC   |
| Variation Voltage          | 90 to 264 VAC  |
| Rated Frequency            | 50 to 60 Hz  |
| Variation Frequency        | 47 to 63 Hz  |
| Input Current              | 1.5 A (Max. at 115 VAC Full Load)<br>0.75 A (Max. at 230 VAC Full Load)    |
| Efficiency                 | 85% (Min. at 115 to 230 VAC Full Load)                                     |
| Inrush Current             | 30 A (Max. at 115 VAC Cold Start)<br>60 A (Max. at 230 VAC Cold Start)     |
| Line Regulation            | 0.5% (Max. 1.1 A Output Load)  |
| Rated Voltage              | 100 to 240 VAC   |
| Output                     |  |
| Output Voltage             | +55 VDC  |
| Regulation                 | ±2% (Max.)   |
| Output Current             | 1.1 A (Rated); 1.2 A (Max.)  |
| Output Power               | 60 W (Rated)   |
| Ripple and Noise           | 200 mV (Max.)  |
| Compatibility              | 802.3at/af Compliant   |
| Data                       | 10/100/1000 Mbps Ethernet  |
| Protection                 |  |
| Short Circuit Protection   | Yes (With Auto-recovery)   |
| Over Current Protection    | Yes (Max. 1.2 A Output, Auto-recovery)                                     |
| Overage Voltage Protection | Yes (Shut Down at 60 VDC Output)   |
| Environmental              |  |
| Operating Temperature      | 0 °C to +40 °C   |
| Storage Temperature        | -20 °C to +70 °C   |
| Relative Humidity          | 95% (Max., Operating, Non-condensing)                                      |
| Altitude                   | 3,048 m (Max., Operating)  |
| Safety                     |  |
| Dielectric Strength        | 3,000 VAC (Max. 10 mA, 1 minute)   |
| Ground Resistance          | 0.1 Ω (Max. at 25 A)   |
| Insulation Resistance      | 100 MΩ (Min., at 500 VDC, In-Out)  |
| Touch Current              | 0.25 mA (Max.)   |
| Safety Standards           | IEC60950, EN60950, CB EN 60950, FCC, CE                                    |
| EMC                        | FCC Part 15 Class B, EN55022 Class B                                       |
| EMS                        | IEC 61000-4-2/3/4/5/6/11   |
| Surge                      | PoE Port: 6 kV Shield-E, Multiline-E<br>AC Port: 2 kV L-PE, N-PE; 1 kV L-L |
| Reliability                |  |
| MTBF:                      | 200,000 hours (at 25°C); 105,000 hours (at 55°C)                           |



### Mechanical

|                        |  |
|------------------------|--|
| Dimensions             | 193 x 85 x 41 mm   |
| Weight                 | 425 g  |
| Input Power Receptacle | IEC 320/C14  |
| Data                   | Unshielded RJ45, EIA 568A+568B   |
| RJ-45 Power Pins       | 4/5 (+), 7/8(-) and 3/6(+), 1/2(-)   |
| LEDs                   | POWER (Green = Power OK)<br>ACTIVE (Green = 0.55 A Load OK,<br>Blue = 1.1 A Load OK) |

### Diagram



### Product Label



### Ordering Information

|  |
|--|
| Part Number: GE.PW-X300-00                     |
| High Power Gigabit PoE injector for X30 Series |

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## Power Adaptor | For Z100

### Specifications

| Input                           |  |
|---------------------------------|--|
| Rated Voltage                   | 100 to 240 VAC   |
| Variation Voltage               | 90 to 264 VAC  |
| Rated Frequency                 | 50/ 60 Hz  |
| Variation Frequency             | 47 to 63 Hz  |
| Input Current                   | 0.8 A (Max., 100-240 VAC Input, Full Load)   |
| Inrush Current                  | 30 A (Max., 264 VAC Input, Cold Start)   |
| Efficiency                      | 80.29% (Min., Average, 115 VAC)  |
| Output                          |  |
| Output Rated Voltage            | +12 VDC  |
| Output Variation Voltage        | 11.4 to 12.6 VDC   |
| Output Current                  | 0.1 to 1.5 A   |
| Turn-on Delay                   | 3 s (Max., 100 to 240 VAC Input, Full Load)  |
| Hold-up Time                    | 20 ms (Min., Full Load, 115 VAC, 60 Hz)  |
| Rise Time                       | 20 ms (Max., Rated Load)   |
| Fall Time                       | 20 ms (Max., Full Load)  |
| Output Overshoot/<br>Undershoot | 10% (Max., When Power On or Off)   |
| Ripple and Noise                | 150 mV p-p (Max.)  |
| Protection                      |  |
| Short Circuit Protection        | Yes  |
| Over Current Protection         | Yes  |
| Overage Voltage<br>Protection   | Yes  |
| Environmental                   |  |
| Operating Temperature           | 0 °C to +40 °C   |
| Storage Temperature             | -20 °C to +80 °C   |
| Relative Humidity               | 10 to 90%  |
| Storage Humidity                | 5 to 95%   |
| Drop                            | 1 m  |
| Safety                          |  |
| Dielectric Strength             | 3,000 VAC/ 10 mA/ 1 minute   |
| Insulation Resistance           | 50 MΩ (Min., 500 VDC)  |
| Leakage Current                 | 0.25 mA (Max., 264 VAC, 50 Hz)   |
| Regulatory Standards            | EN 60065, EN 60950   |
| EMI Standards                   | EN 55022: 2006 + A2: 2010, Class B<br>EN 55024: 1998 + A1: 2001 + A2: 2003<br>CISPR 22: 2003, Class B<br>AS/ NZS CISPR 22: 2004, Class B |
| EMS Standards                   | EN61000-3-2, EN61000-3-3, EN61000-4-2,<br>EN61000-4-3, EN61000-4-4, EN61000-4-5,<br>EN61000-4-6, EN61000-4-8, EN61000-4-11               |
| RoHS                            | Yes  |



#### Mechanical

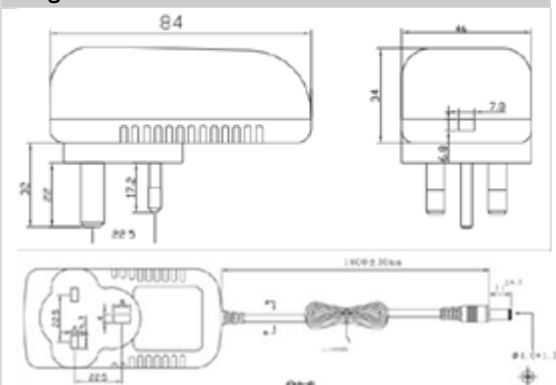
Dimensions 84 x 46 x 66 mm

Weight 155 g

#### Reliability

MTBF 50,000 hours (25°C, Full Load)

#### Diagram



#### Product Label



#### Ordering Information

Part Number: GE.PA-Z100-UK

Power Adaptor for Z100

- UK Plug

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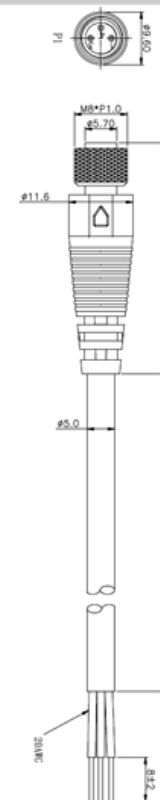
## DC Power Cable | For X22e DC Power Connection | Special Item

### Specifications

| Product               |   |
|-----------------------|---|
| Connector             | M8, 3-pin, Female Straight  |
| Cable Length          | 1.5 m   |
| Conductor             |   |
| Wire Gauge            | 20 AWG<br>20/ 0.18 mm Tinned Copper Strained Wire                   |
| Outer Diameter        | 0.93 ±0.03 mm   |
| Cross Sectional Area  | 0.5098 mm <sup>2</sup>  |
| Conductance           | 98%   |
| Stretching Length     | 15%   |
| Connector Resistance  | 35.3 Ω/ km  |
| Wire Insulation       |   |
| Material              | 80°C 300V VW-1 SR-PVC   |
| Thickness             | 0.25±0.02 mm  |
| Outdoor Diameter      | Ø1.50±0.03 mm   |
| Color                 | Red (+V), Black (-V), Blue (Ground)                                 |
| Insulation Resistance | 1.5 MΩ/ km  |
| Dielectric Strength   | 2000 V/ min   |
| Cable Jacket          |   |
| Material              | 80°C 300V PVC   |
| Thickness             | 0.75±0.03 mm (Excludes Outside Jacket)                              |
| Outdoor Diameter      | Ø5±0.1 mm   |
| Color                 | Black   |
| Insulation Resistance | 1.5 MΩ/ km  |
| Dielectric Strength   | 2000 V/ min   |
| Connector             |   |
| Plastic Housing       | Engineering Thermoplastic, Flammability Rating UL94V-0, Black Color |
| Contacts Material     | Copper Alloy  |
| Plating               | Gold Plating Over Nickel  |
| O-ring                | Silicone Rubber, Black Color  |
| Coupling Nut          | M8 x P1 Brass with Nickel Plated                                    |
| Certification         |   |
| Hazardous Substance   | RoHS Compliance   |



Diagram



#### Ordering Information

Part Number: GE.CA-DC15-00

1.5m DC Power Cable for X22e  
- M8-3 female

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## 4-port Industrial High Power PoE Switch

Unmanaged, 1<sup>st</sup> Port up to 60W

### Specifications

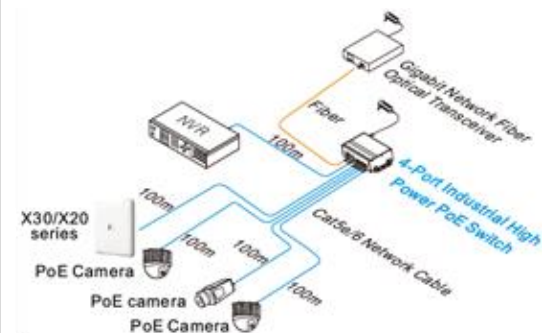
| PoE Switch               |   |
|--------------------------|---|
| Switch Processing Scheme | Store and Forward, Unmanaged  |
| Downlink Ports           | 4 × 10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)                                     |
| Uplink Ports             | 1 × 1000 Mbps SFP<br>1 × 10/100/1000BaseT<br>1 × Optical/Ethernet Gigabit Combo |
| Network Standard         | IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x                      |
| Switching Capacity       | 17.5 Gbps   |
| Throughput               | 10.4 Mbps   |
| Memory Buffer            | 1 Mbit  |
| MAC Address              | 8K  |
| PoE Port                 |   |
| PoE Output Voltage       | 44-57 VDC   |
| PoE Standard             | 802.3af/at  |
| PSE Type                 | End-span  |
| PoE Power                | 1st Port 60W (Max., Microsemi Solution);<br>2nd to 4th ports 30 W (Max.)        |
| Environmental            |   |
| Operating Temperature    | -40 °C to +75 °C (PoE Switch)   |
| Storage Temperature      | -40 °C to +85 °C (PoE Switch)   |
| Relative Humidity        | 5 to 95% (Non-condensing)   |
| Lightning Protection     | 6 kV, Execute IEC-61000-4-5   |
| Compliance               |   |
| Certification Compliance | FCC, CE, RCM, RoHS, WEEE  |
| ESD                      | 6 kV Contact Discharge, 8 kV Air Discharge, Execute IEC-61000-4-2               |
| Mechanical               |   |
| Dimensions (W×H×D)       | 163 x 46 x 110 mm   |
| Weight                   | 530 g   |
| Installation             | DIN Rail, Desktop and Wall  |
| Casing Design            | Fan-less Wavy Metal Shell with Heat Dissipation Design                          |
| Casing Material          | Aluminum  |
| Casing Color             | Cool Grey   |
| LED                      | Power Input Status, Ethernet Link & Speed                                       |
| Power Input Port         | Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal |
| Power Pin Assignment     | 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)  |



#### Power

|                     |   |
|---------------------|---|
| Power Input         | Redundant Power Input, Power Hot Backup   |
| Input Voltage Range | 48 to 57 VDC<br>56+ VDC for X33<br>55+ VDC for X32/ X32e<br>54+ VDC for X20/ X22e |
| Power Consumption   | 6 W (Max.)  |

#### Network Diagram

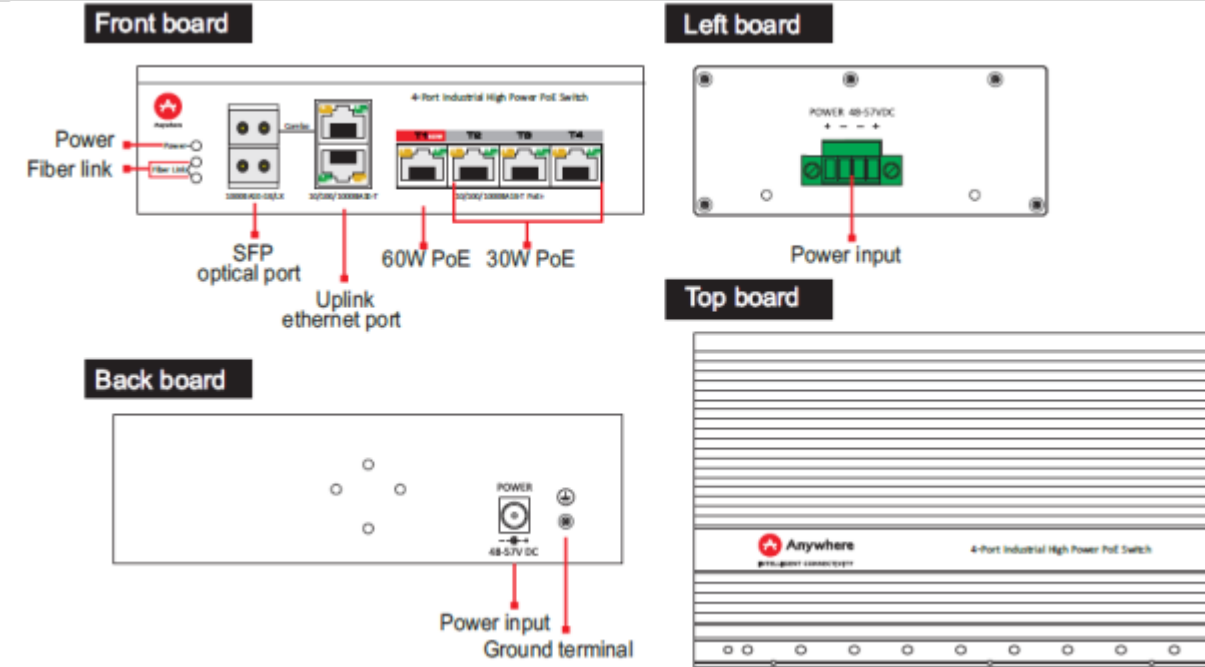


#### Ordering Information

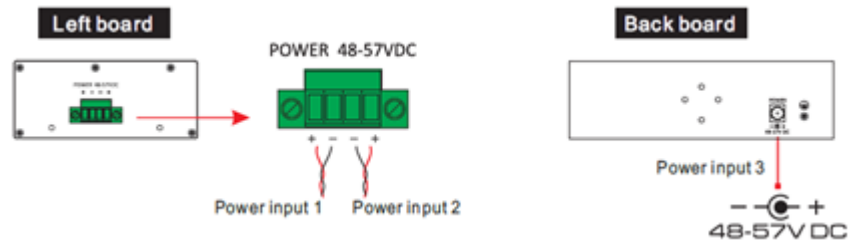
Part No.: GE.SW-7204-0H

4-port Industrial High Power PoE Switch  
Unmanaged, 4-port, 1st Port up to 60W (Microsemi Solution), Other Ports up to 30W, DIN Rail Hanger, Wall Hanger

## Interface Diagram



## Power Supply Connection

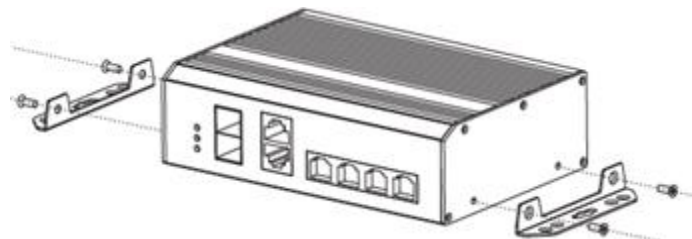


## Installation

### DIN Rail Mounting



### Wall Mounting



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## Power Adaptor, 240W

Model NDR-240-48

### Specifications

| Output                   |   |
|--------------------------|---|
| DC Voltage               | 48 V  |
| Rated Current            | 5 A   |
| Current Range            | 0 to 5 A  |
| Rated Power              | 240 W   |
| Ripple & Noise           | 150 mV p-p  |
| Voltage Adjustment Range | 48 to 55 V  |
| Voltage Tolerance        | ±1.0%   |
| Line Regulation          | ±0.5%   |
| Load Regulation          | ±1.0%   |
| Setup, Rise Time         | 1500 ms, 100 ms at 230 VAC<br>3000 ms, 100 ms at 115V AC, Full Load   |
| Hold Up Time             | 28 ms at 230V AC (Typ.)<br>22 ms at 115VAC, Full Load (Typ.)  |
| Input                    |   |
| Voltage Range            | 90 to 264 VAC<br>127 to 370 VDC by Connecting AC/L(+), AC/N(-)  |
| Frequency Range          | 47 to 63 Hz   |
| Power Factor             | > 0.98 at 115 VAC (Typ.)<br>> 0.95 at 230 VAC, Full Load (Typ.)   |
| Efficiency               | 90% (Typ.)  |
| AC Current               | 2.5 A at 115VAC (Typ.)<br>1.3 A at 230 VAC (Typ.)   |
| Inrush Current           | 20 A at 115 VAC (Typ.)<br>35 A at 230 VAC (Typ.)  |
| Leakage Current          | <1 mA at 240 VAC  |
| Protection               |   |
| Overload                 | 105 to 130% Rated Output Power<br>Protection Type: Constant Current Limiting, Recovers Automatically After Fault Condition is Removed |
| Over Voltage             | 56 to 65 V<br>Protection Type: Shut Down O/P Voltage, Re-power On to Recover  |
| Over Temperature         | Shut Down O/P Voltage, Recovers Automatically After Temperature Goes Down   |
| Environmental            |   |
| Temperature              | -20 to +70°C (Operating)<br>-40 to +85°C (Storage)  |
| Humidity                 | 20% to 95% Non-condensing (Operating)<br>10% to 95% (Storage)   |
| Temperature Coefficient  | ±0.03%/ °C (0 to 50°C)  |
| Vibration                | 10 ~ 500 Hz, 2G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component)<br>IEC60068-2-6 (Mounting)                                |



#### Safety & EMC

|                      |  |
|----------------------|--|
| Safety Standards     | UL508, TUV EN60950-1; EN60204-1  |
| Withstand Voltage    | I/P to O/P: 3 KVAC<br>I/P to FG: 2 KVAC<br>O/P to FG: 0.5 KVAC   |
| Isolation Resistance | I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C / 70% RH  |
| EMC Emission         | EN 55032 (CISPR32)<br>EN 61204-3 Class B<br>EN 61000-3-2, 3  |
| EMC Immunity         | EN 61000-4-2, 3, 4, 5, 6, 8, 11<br>EN 55024<br>EN 61000-6-2 (EN 50082-2)<br>EN 61204-3<br>Heavy Industry Level, Criteria A |

#### Others

|                         |   |
|-------------------------|---|
| MTBF                    | 230.2 K hr (Min.) MIL-HDBK-217F (25°C)                              |
| Dimensions              | 63.0 × 125.2 × 113.5 mm   |
| Installation Clearances | 40 mm (Top); 20 mm (Bottom), 5 mm (Both Sides), 15 mm (Heat Source) |
| Weight                  | 900 g (Net); 974 g (Gross)  |

#### Certification

CE, CB, UL, RCM

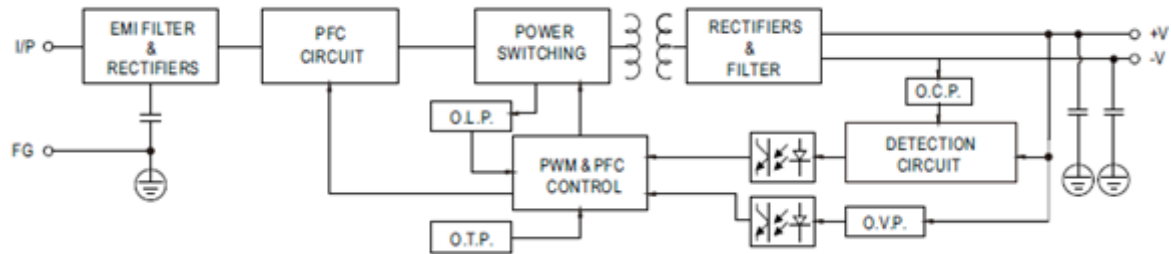
#### Ordering Information

Part Number: GE.PA-0240-MW

Power Adaptor for Industrial PoE Switch  
(Model No.: NDR-240-48)  
- 240W, DIN Rail Mounting

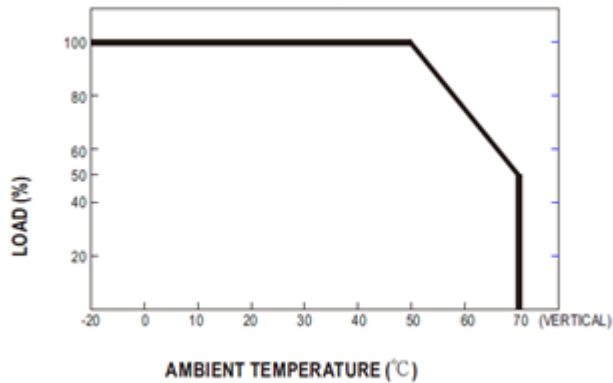


## Block Diagram

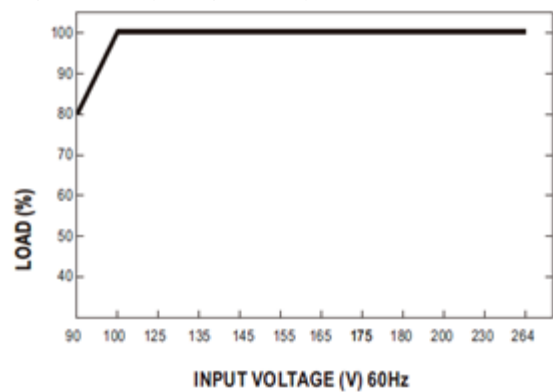


## Derating Curve

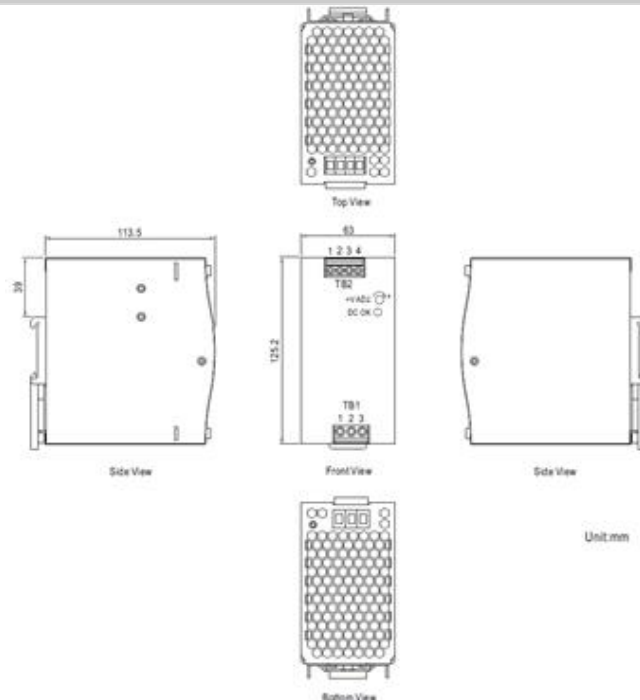
Output Derating vs. Ambient Temperature



Output Derating vs Input Voltage

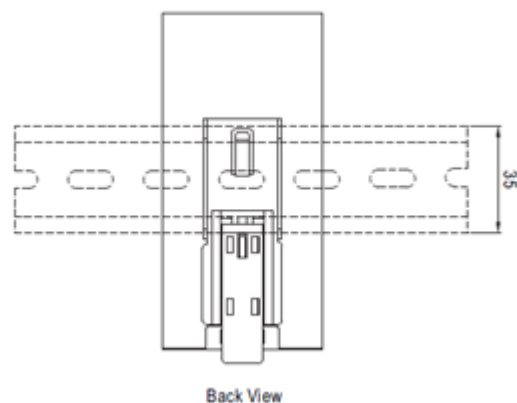


## Mechanical



### DIN Rail Mounting

Admissible DIN Rail: TS35/7.5 or TS35/15  
(Din Rail Not Included)



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## Power Adaptor, 120W

Model NDR-120-48

### Specifications

| Output                   |   |
|--------------------------|---|
| DC Voltage               | 48 V  |
| Rated Current            | 2.5 A   |
| Current Range            | 0 to 2.5 A  |
| Rated Power              | 120 W   |
| Ripple & Noise           | 150 mV p-p  |
| Voltage Adjustment Range | 48 to 55 V  |
| Voltage Tolerance        | ±1.0%   |
| Line Regulation          | ±0.5%   |
| Load Regulation          | ±1.0%   |
| Setup, Rise Time         | 1200 ms, 60 ms at 230 VAC<br>2500 ms, 60 ms at 115V AC, Full Load   |
| Hold Up Time             | 16 ms at 230V AC (Typ.)<br>10 ms at 115VAC, Full Load (Typ.)  |
| Input                    |   |
| Voltage Range            | 90 to 264 VAC<br>127 to 370 VDC by Connecting AC/L(+), AC/N(-)  |
| Frequency Range          | 47 to 63 Hz   |
| Efficiency               | 89% (Typ.)  |
| AC Current               | 2.25 A at 115VAC (Typ.)<br>1.3 A at 230 VAC (Typ.)  |
| Inrush Current           | 20 A at 115 VAC (Typ.)<br>35 A at 230 VAC (Typ.)  |
| Leakage Current          | <1 mA at 240 VAC  |
| Protection               |   |
| Overload                 | 105 to 130% Rated Output Power<br>Protection Type: Constant Current Limiting, Recovers Automatically After Fault Condition is Removed |
| Over Voltage             | 56 to 65 V<br>Protection Type: Shut Down O/P Voltage, Re-power On to Recover  |
| Over Temperature         | Shut Down O/P Voltage, Re-power On to Recover   |
| Environmental            |   |
| Temperature              | -20 to +70°C (Operating)<br>-40 to +85°C (Storage)  |
| Humidity                 | 20% to 95% Non-condensing (Operating)<br>10% to 95% (Storage)   |
| Temperature Coefficient  | ±0.03%/ °C (0 to 50°C)  |
| Vibration                | 10 ~ 500 Hz, 2G 10 Min./ Cycle, 60 min.<br>Each Along X, Y, Z Axes (Component)<br>IEC60068-2-6 (Mounting)                             |



#### Safety & EMC

|                      |  |
|----------------------|--|
| Safety Standards     | UL508, TUV EN60950-1; EN60204-1  |
| Withstand Voltage    | I/P to O/P: 3 KVAC<br>I/P to FG: 2 KVAC<br>O/P to FG: 0.5 KVAC   |
| Isolation Resistance | I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C / 70% RH  |
| EMC Emission         | EN 55032 (CISPR32)<br>EN 61204-3 Class B<br>EN 61000-3-2, 3  |
| EMC Immunity         | EN 61000-4-2, 3, 4, 5, 6, 8, 11<br>EN 55024<br>EN 61000-6-2 (EN 50082-2)<br>EN 61204-3<br>Heavy Industry Level, Criteria A |

#### Others

|                         |   |
|-------------------------|---|
| MTBF                    | 456.3 K hr (Min.) MIL-HDBK-217F (25°C)                              |
| Dimensions              | 40.0 × 125.2 × 113.5 mm   |
| Installation Clearances | 40 mm (Top); 20 mm (Bottom), 5 mm (Both Sides), 15 mm (Heat Source) |
| Weight                  | 600 g (Net); 674 g (Gross)  |

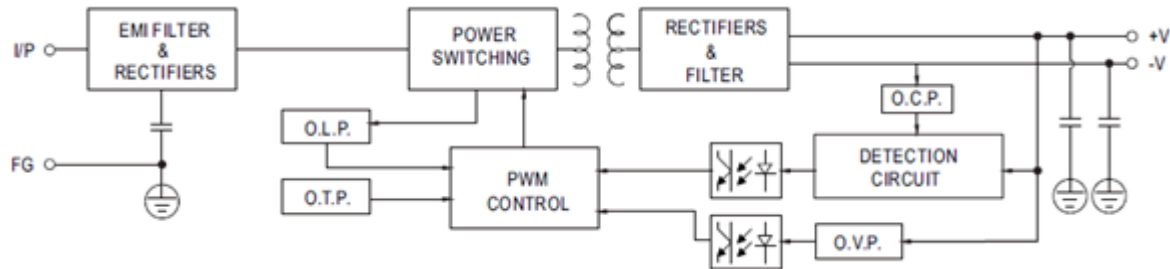
#### Certification

CE, CB, UL, RCM

#### Ordering Information

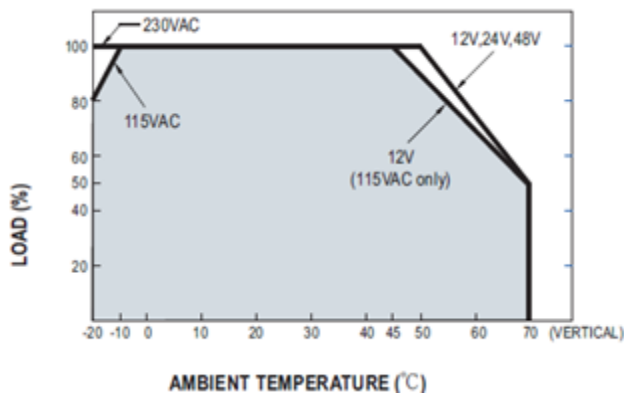
Part Number: NS.PA-0120-MW  
Power Adaptor for Industrial PoE Switch  
(Model No.: NDR-120-48)  
- 120W, DIN Rail Mounting

## Block Diagram

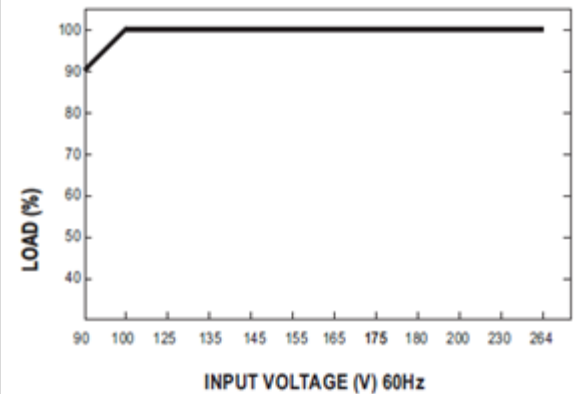


## Derating Curve

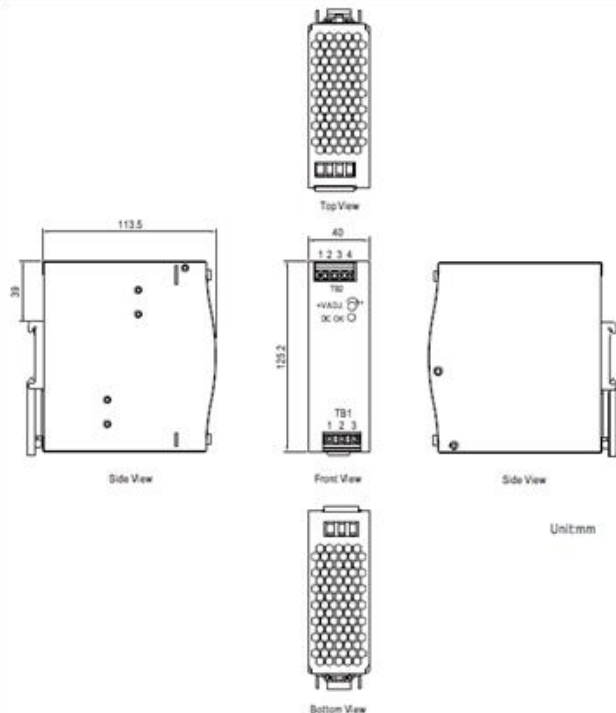
Output Derating vs. Ambient Temperature



Output Derating vs Input Voltage

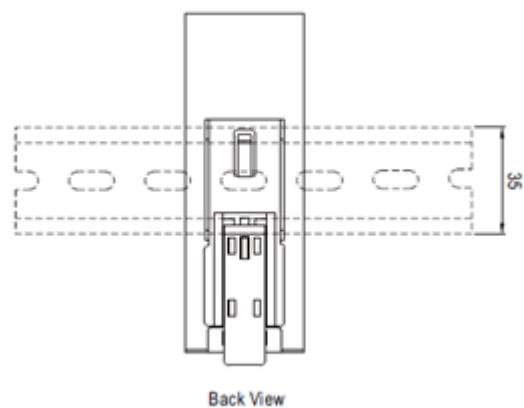


## Mechanical



DIN Rail Mounting

Admissible DIN Rail: TS35/7.5 or TS35/15  
(Din Rail Not Included)



Version: 08 Jan 2020

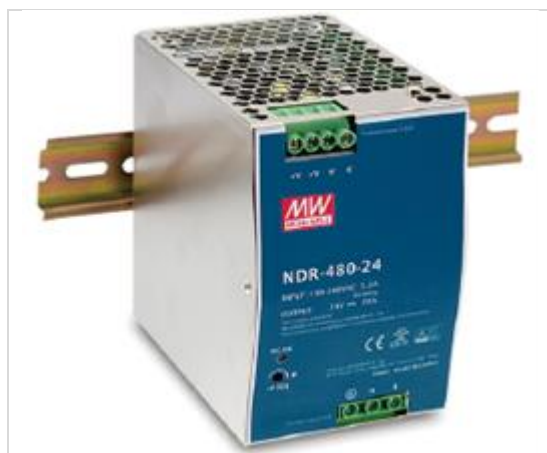
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## Power Adaptor, 480W | Special Item

Model NDR-480-48

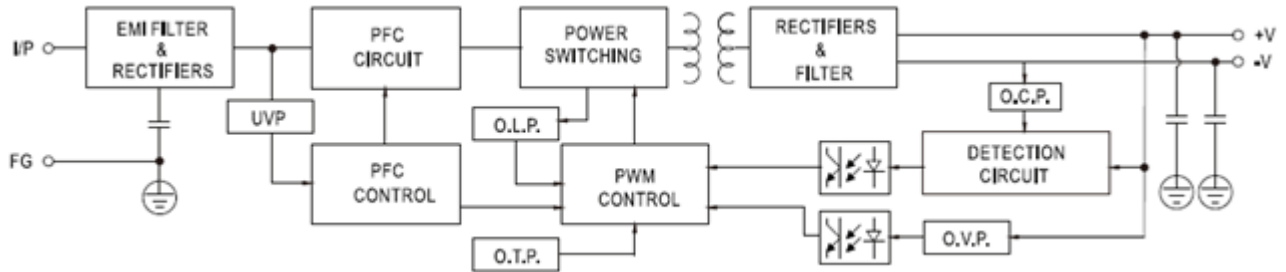
### Specifications

| Output                   |   |
|--------------------------|---|
| DC Voltage               | 48 V  |
| Rated Current            | 10 A  |
| Current Range            | 0 to 10 A   |
| Rated Power              | 480 W   |
| Ripple & Noise           | 150 mV p-p  |
| Voltage Adjustment Range | 48 to 55 V  |
| Voltage Tolerance        | ±1.0%   |
| Line Regulation          | ±0.5%   |
| Load Regulation          | ±1.0%   |
| Setup, Rise Time         | 1500 ms, 100 ms at 230 VAC<br>3000 ms, 100 ms at 115V AC, Full Load   |
| Hold Up Time             | 16 ms at 230V AC (Typ.)<br>16 ms at 115VAC, Full Load (Typ.)  |
| Input                    |   |
| Voltage Range            | 90 to 264 VAC<br>127 to 370 VDC   |
| Frequency Range          | 47 to 63 Hz   |
| Power Factor             | > 0.98 at 115 VAC (Typ.)<br>> 0.94 at 230 VAC, Full Load (Typ.)   |
| Efficiency               | 92.5% (Typ.)  |
| AC Current               | 4.8 A at 115VAC (Typ.)<br>2.4 A at 230 VAC (Typ.)   |
| Inrush Current           | 20 A at 115 VAC (Typ.)<br>35 A at 230 VAC (Typ.)  |
| Leakage Current          | <2 mA at 240 VAC  |
| Protection               |   |
| Overload                 | 105 to 130% Rated Output Power<br>Protection Type: Constant Current Limiting, Unit Will Shut Down After 3 Seconds, Re-power On to Recover |
| Over Voltage             | 56 to 65 V<br>Protection Type: Shut Down O/P Voltage, Re-power On to Recover  |
| Over Temperature         | Shut Down O/P Voltage, Recovers Automatically After Temperature Goes Down   |
| Environmental            |   |
| Temperature              | -20 to +70°C (Operating)<br>-40 to +85°C (Storage)  |
| Humidity                 | 20% to 95% Non-condensing (Operating)<br>10% to 95% (Storage)   |
| Temperature Coefficient  | ±0.03%/ °C (0 to 50°C)  |
| Vibration                | 10 ~ 500 Hz, 2G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component)<br>IEC60068-2-6 (Mounting)                                    |



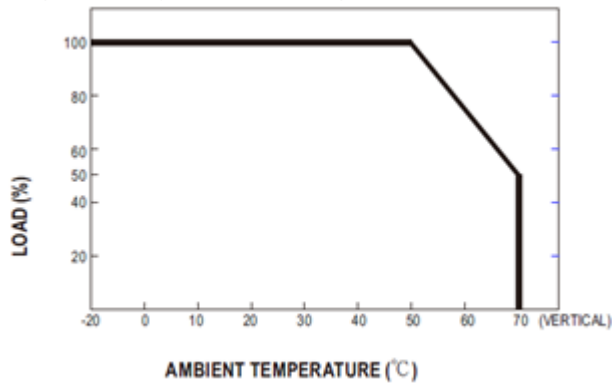
| Safety & EMC   |   |
|--|---|
| Safety Standards   | UL508, TUV EN60950-1; EAC TP TC 004; BSMI CNS 14336-1 Approved; EN 60204-1  |
| Withstand Voltage  | I/P to O/P: 3 kV AC<br>I/P to FG: 2 kV AC<br>O/P to FG: 0.5 kV AC   |
| Isolation Resistance   | I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C/ 70% RH  |
| EMC Emission   | EN 55032 (CISPR32)<br>EN 61204-3 Class B<br>EN 61000-3-2, 3<br>EAC TP TC 020<br>CNS 13438 Class B   |
| EMC Immunity   | EN 61000-4-2, 3, 4, 5, 6, 8, 11<br>EN 55024<br>EN 61000-6-2 (EN 50082-2)<br>EN 61204-3<br>Heavy Industry Level, Criteria A<br>EAC TP TC 020 |
| Others   |   |
| MTBF   | 146.8K hr (Min.) MIL-HDBK-217F (25°C)   |
| Dimensions   | 85.5 × 125.2 × 128.5 mm (W*H*D)   |
| Installation Clearances  | 40 mm (Top); 20 mm (Bottom), 5 mm (Both Sides), 15 mm (Heat Source)   |
| Weight   | 1,500 g (Net); 1,625 g (Gross)  |
| Certification  |   |
| CE, CB, UL   |   |
| Ordering Information   |   |
| Part Number: GE.PA-0480-MW   |   |
| Power Adaptor for Industrial PoE Switch (Model No.: NDR-480-48)<br>- 480W, DIN Rail Mounting |   |

## Block Diagram

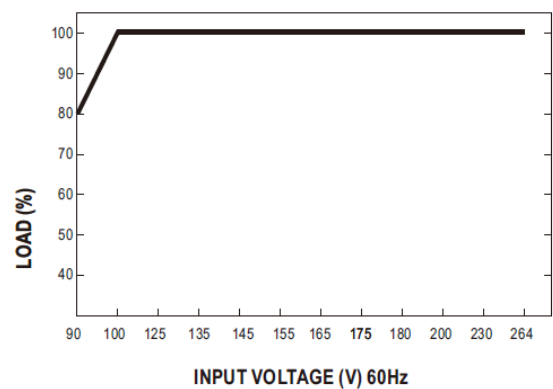


## Derating Curve

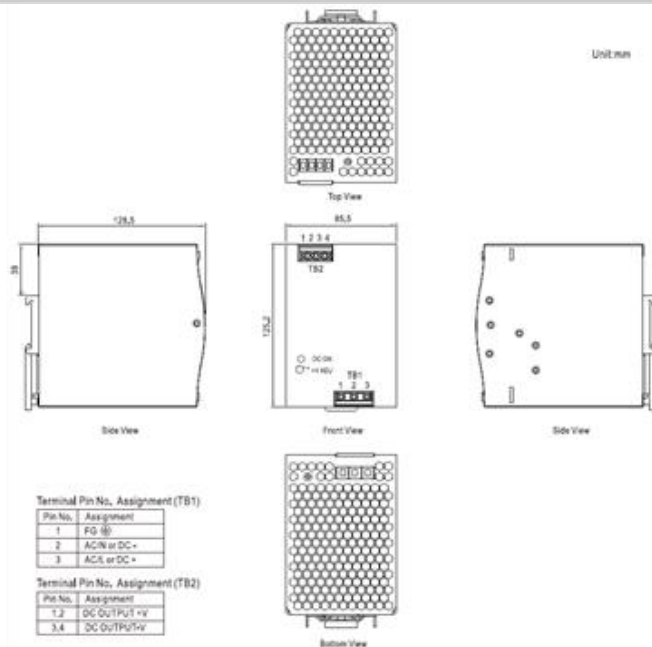
Output Derating vs. Ambient Temperature



Output Derating vs Input Voltage

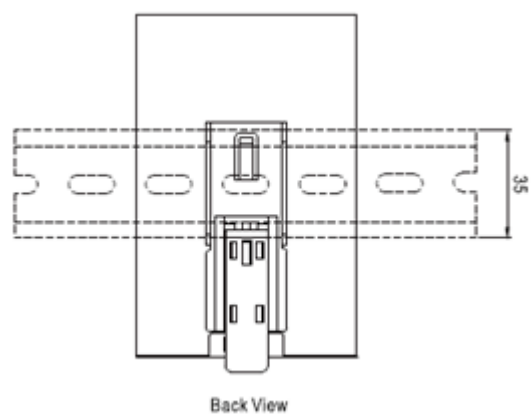


## Mechanical



## DIN Rail Mounting

Admissible DIN Rail: TS35/7.5 or TS35/15  
(Din Rail Not Included)



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## DC-DC Power Adaptor, 240W | Special Item

Model DDR-240B-48

### Specifications

| Output                   |   |
|--------------------------|---|
| DC Voltage               | 48 V  |
| Rated Current            | 5 A   |
| Current Range            | 0 to 5 A  |
| Rated Power              | 240 W   |
| Ripple & Noise           | 100 mV p-p  |
| Voltage Adjustment Range | 48 to 56 V  |
| Voltage Tolerance        | ±1.0%   |
| Line Regulation          | ±0.5%   |
| Load Regulation          | ±1.0%   |
| Setup, Rise Time         | 500 ms, 60 ms   |
| Hold Up Time             | 6 ms (100% Load)<br>10 ms (70% Load)  |
| Input                    |   |
| Voltage Range            | 16.8 to 33.6 VDC (Continuous)<br>14.4 to 16.8 VDC (100 ms)  |
| Efficiency               | 90% (Typ.)  |
| DC Current               | 11.2 A at 24VDC (Typ.)  |
| Inrush Current           | 30 A (Typ.)   |
| Protection               |   |
| Overload                 | Normally works within 150% rated output power for more than 3 seconds and then constant current protection 105-135% rated output power with auto-recovery |
| Over Voltage             | 57.6 to 65 V<br>Protection Type: Shut Down O/P Voltage, Re-power On to Recover  |
| Over Temperature         | Shut Down O/P Voltage, Re-power On to Recover   |
| Under Voltage Lockout    | 24Vin: Power ON ≥16.8V, OFF ≤16.5V  |
| Environmental            |   |
| Temperature              | -40 to +70°C (Operating)<br>-40 to +85°C (Storage)  |
| Humidity                 | 5% to 95% Non-condensing (Operating)<br>5% to 95% (Storage)   |
| Temperature Coefficient  | ±0.03%/ °C (0 to 55°C)  |
| Vibration                | 10 ~ 500 Hz, 5G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component)<br>IEC61373 (Mounting)  |
| Altitude                 | 2000 m  |



#### Safety & EMC

|                      |   |
|----------------------|---|
| Safety Standards     | IEC 62328-1; EAC TP TC 004; AS/NZS 62368.1; UL508                       |
| Withstand Voltage    | I/P to O/P: 4 KVAC<br>I/P to FG: 2.5 KVAC<br>O/P to FG: 0.71 KVAC       |
| Isolation Resistance | I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C / 70% RH |
| EMC Emission         | EN 55032 Class B<br>EN 61000-3-3  |
| EMC Immunity         | EN 61000-4-2, 3, 4, 5, 6, 8   |
| Railway              | EN 45545-2; EN 50155 / IEC 60571; IEC 61373; EN 50121-3-2               |

#### Others

|                         |   |
|-------------------------|---|
| MTBF                    | 484.9 K hr (Min.) Telcordia SR-332 (Bellcore)<br>189.9 K hr (Min.) MIL-HDBK-217F (25°C) |
| Dimensions              | 40.0 × 125.2 × 113.5 mm   |
| Installation Clearances | 40 mm (Top); 20 mm (Bottom), 5 mm (Both Sides), 15 mm (Heat Source)                     |
| Weight                  | 760 g (Gross)   |

#### Certification

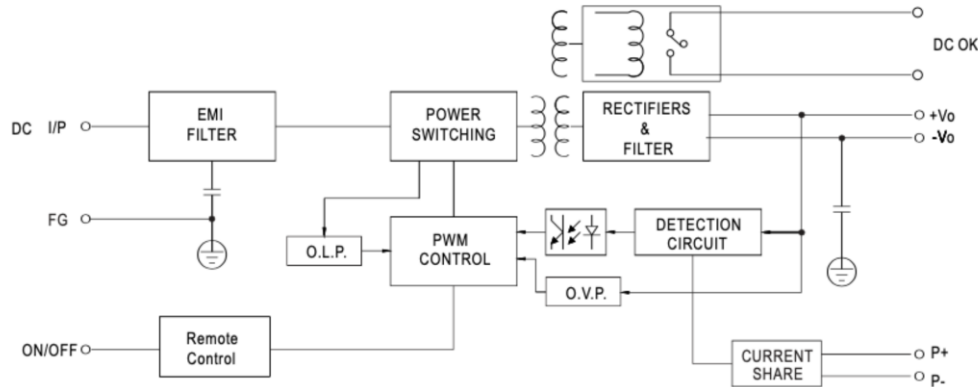
CE, CB, UL

#### Ordering Information

Part Number: GE.PA-D240-MW

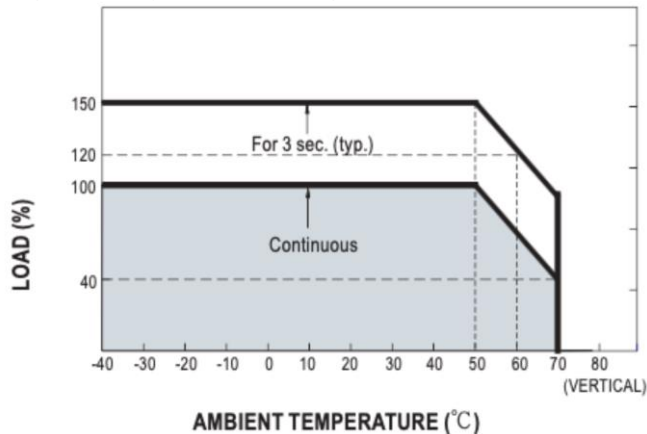
DC-DC Power Adaptor for Industrial PoE Switch (Model No.: DDR-240B-48)  
- 16.8-33.6VDC Input, 48-56VDC Output, 240W, DIN rail mounting, default output setting 48VDC

## Block Diagram

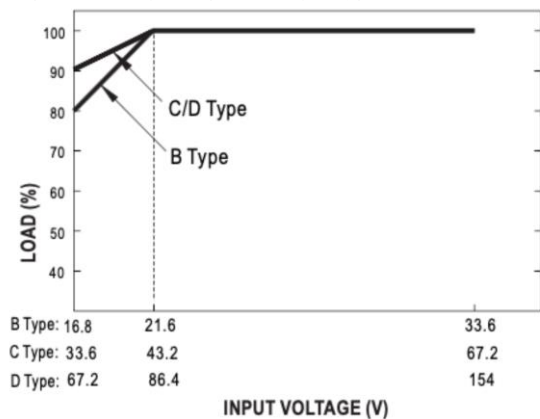


## Derating Curve

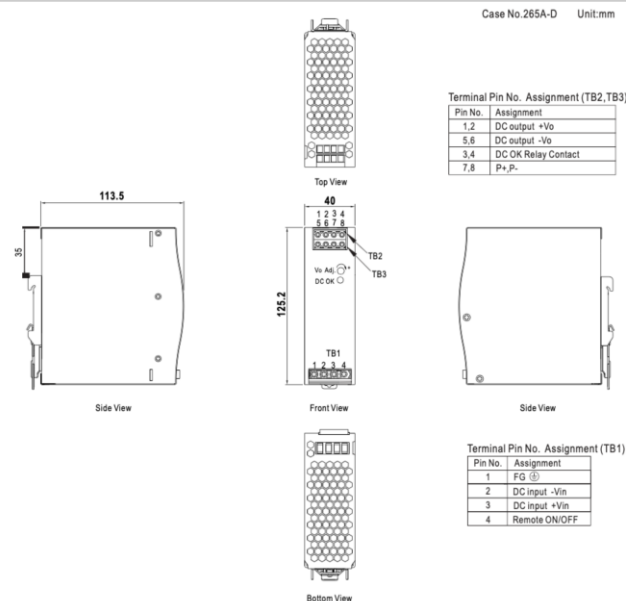
Output Derating vs. Ambient Temperature



Output Derating vs Input Voltage (Type B)

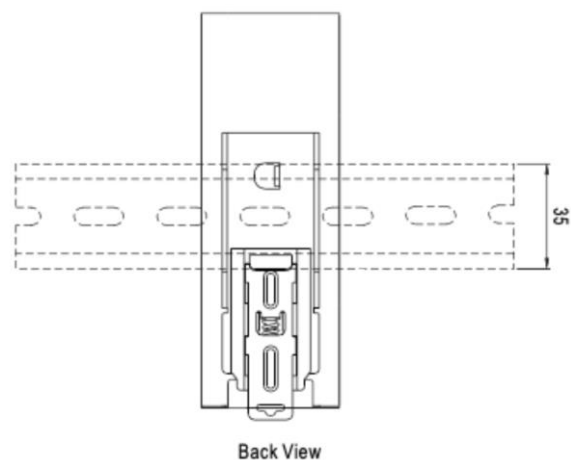


## Mechanical



## DIN Rail Mounting

Admissible DIN Rail: TS35/7.5 or TS35/15  
(Din Rail Not Included)



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