

Gigabit PoE + Injector | For Z100, Z500 and X20

Specifications

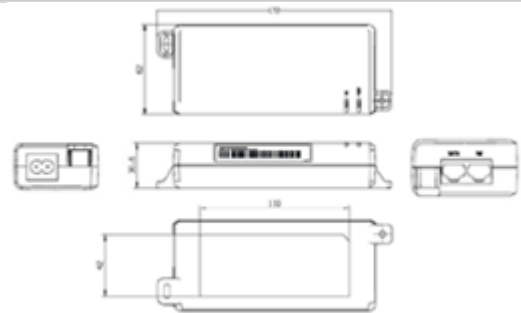
Input	
Rated Voltage	100 to 240 VAC
Variation Voltage	90 to 270 VAC
Rated Frequency	50 to 60 Hz
Variation Frequency	47 to 63 Hz
Input Current	1A rms (Max. 100 VAC input full load)
Output	
Output Voltage	+54 VDC
Output Current	0.65 A (Max., Continuous Load)
Output Power	35 W (Max.)
Line Regulation	±5%
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) 4 kV (AC line to line) 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)



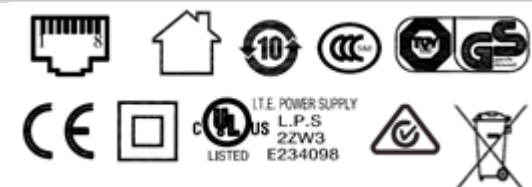
Mechanical

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 Output: Pin 1, 2, 4, 5: +VDC & Data Pin 3, 6, 7, 8: -VDC & Data
LEDs	PORT (Green = PoE OK); AC (Green = Power OK)

Diagram



Product Label



Ordering Information

Part Number: GE.PW-AT00-00

Gigabit PoE Injector For Z100, Z500 and X20 Series

Version: 08 Jan 2020

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Gigabit PoE + Injector with Power Cords

For Z100, Z500 and X20

Specifications

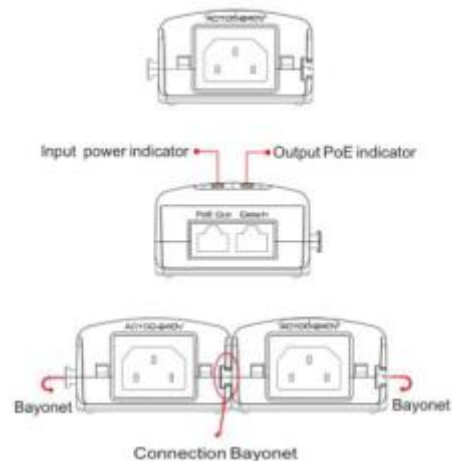
Input	
Rated Voltage	100 to 240 VAC
Variation Voltage	90 to 264 VAC
Rated Frequency	50 to 60 Hz
Variation Frequency	47 to 63 Hz
Input Current	1 A (Max., 100 VAC input)
Output	
Output Voltage	+54 VDC
Output Current	0.55 A (Max.)
Output Power	30 W (Max.)
Line Regulation	±3%
Ripple and Noise	150 mV p-p (Max.)
Efficiency	85% (Min.)
Surge	6 kV (PoE-GND; Data-GND) 2 kV (PoE and Data Line to Line) 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; Output: Pin 1, 2: +VDC & Data; Pin 3, 6: -VDC & Data
LEDs	Power (Red = AC Power OK); 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

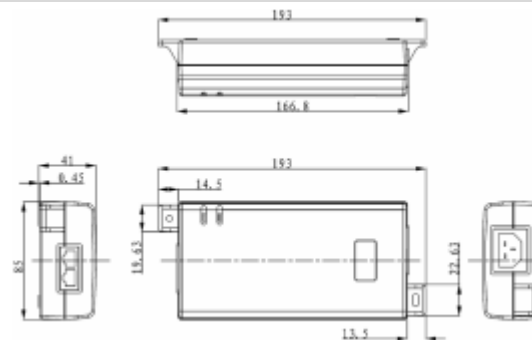
Input	
Rated Voltage	100 to 240 VAC
Variation Voltage	90 to 264 VAC
Rated Frequency	50 to 60 Hz
Variation Frequency	47 to 63 Hz
Input Current	1.5 A (Max. at 115 VAC Full Load) 0.75 A (Max. at 230 VAC Full Load)
Efficiency	85% (Min. at 115 to 230 VAC Full Load)
Inrush Current	30 A (Max. at 115 VAC Cold Start) 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 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) ACTIVE (Green = 0.55 A Load OK, 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/ 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 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 EN 55024: 1998 + A1: 2001 + A2: 2003 CISPR 22: 2003, Class B AS/ NZS CISPR 22: 2004, Class B
EMS Standards	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
RoHS	Yes



Mechanical

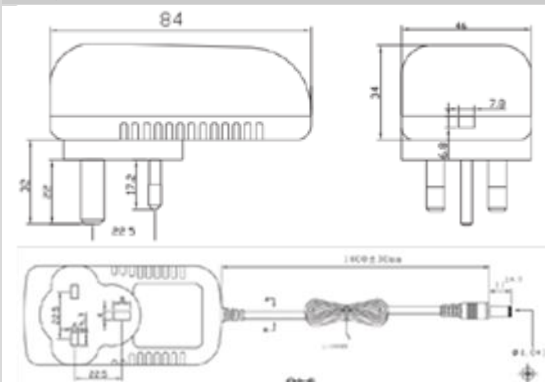
Dimensions 84 x 46 x 66 mm

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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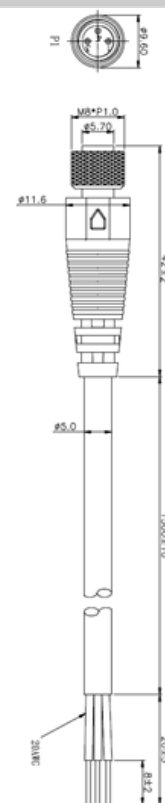
DC Power Cable | For X22e DC Power Connection

Specifications

Product	
Connector	M8, 3-pin, Female Straight
Cable Length	1.5 m
Conductor	
Wire Gauge	20 AWG 20/ 0.18 mm Tinned Copper Strained Wire
Outer Diameter	0.93 ±0.03 mm
Cross Sectional Area	0.5098 mm ²
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, 1st Port up to 60W

Specifications

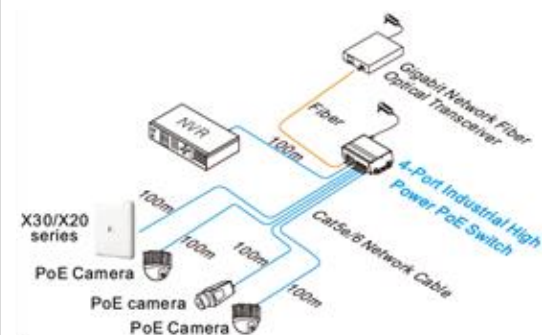
PoE Switch	
Switch Processing Scheme	Store and Forward, Unmanaged
Downlink Ports	4 × 10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)
Uplink Ports	1 × 1000 Mbps SFP 1 × 10/100/1000BaseT 1 × Optical/Ethernet Gigabit Combo
Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x
Switching Capacity	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); 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 56+ VDC for X33 55+ VDC for X32/ X32e 54+ VDC for X20/ X22e
Power Consumption	6 W (Max.)

Network Diagram

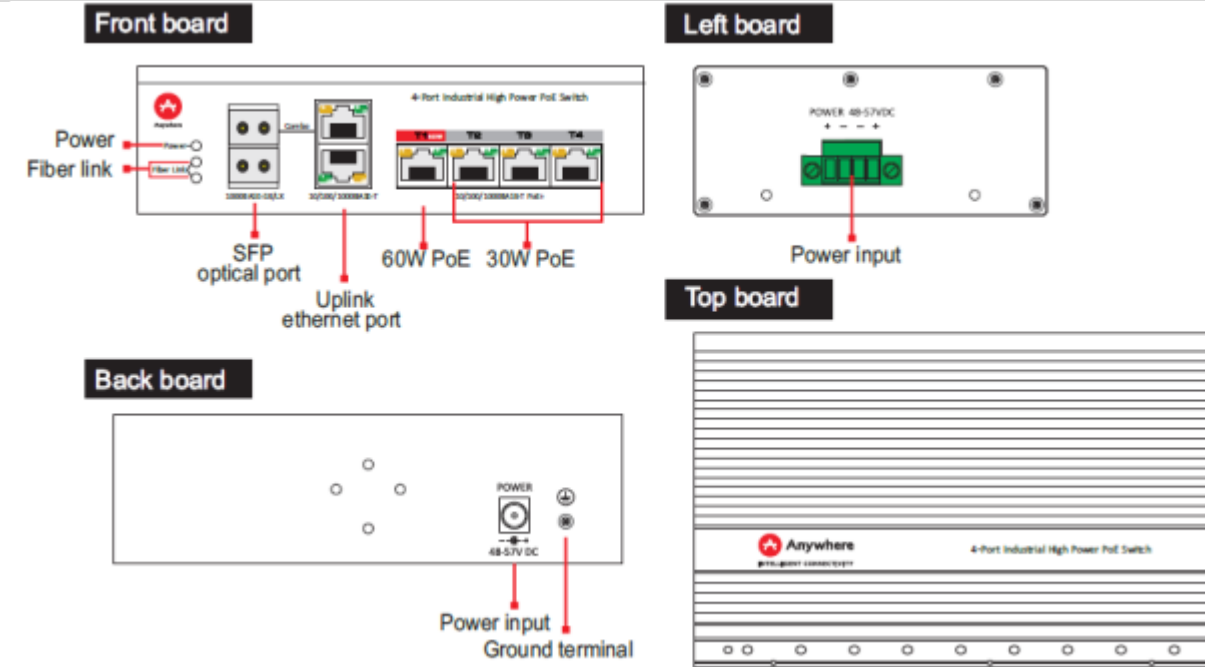


Ordering Information

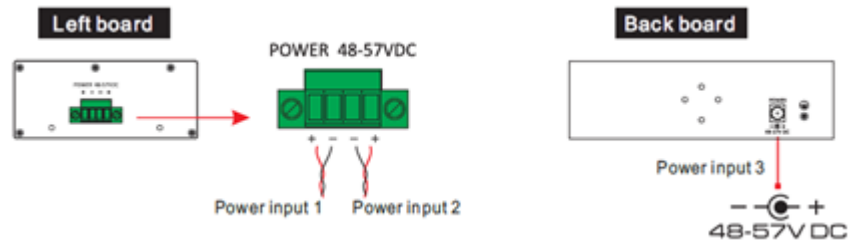
Part No.: GE.SW-7204-0H

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

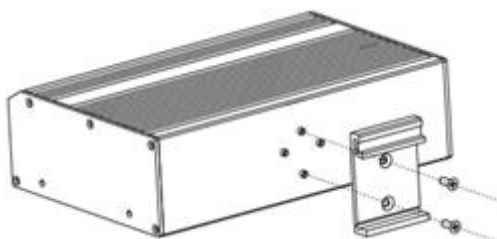


Power Supply Connection

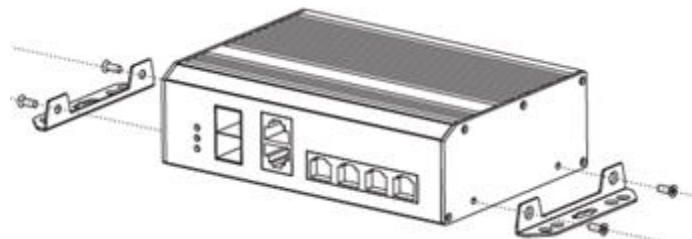


Installation

DIN Rail Mounting



Wall Mounting



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Power Adaptor, 120W

Model NDR-120-48

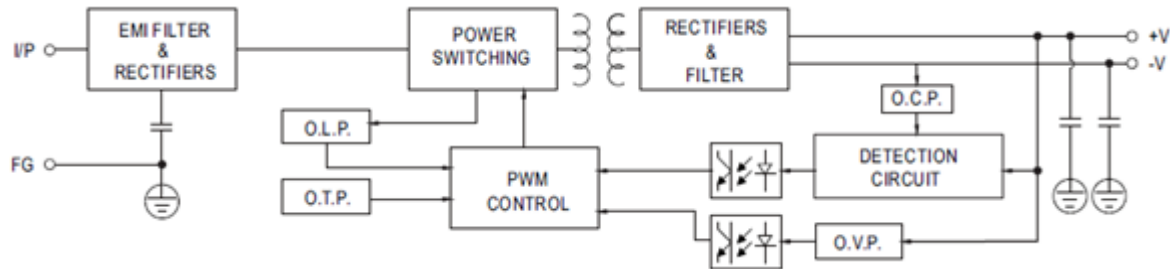
Specifications

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 2500 ms, 60 ms at 115V AC, Full Load
Hold Up Time	16 ms at 230V AC (Typ.) 10 ms at 115VAC, Full Load (Typ.)
Input	
Voltage Range	90 to 264 VAC 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.) 1.3 A at 230 VAC (Typ.)
Inrush Current	20 A at 115 VAC (Typ.) 35 A at 230 VAC (Typ.)
Leakage Current	<1 mA at 240 VAC
Protection	
Overload	105 to 130% Rated Output Power Protection Type: Constant Current Limiting, Recovers Automatically After Fault Condition is Removed
Over Voltage	56 to 65 V 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) -40 to +85°C (Storage)
Humidity	20% to 95% Non-condensing (Operating) 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) IEC60068-2-6 (Mounting)



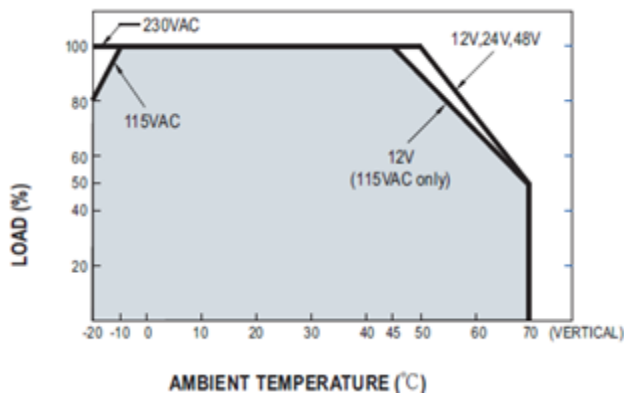
Safety & EMC	
Safety Standards	UL508, TUV EN60950-1; EN60204-1
Withstand Voltage	I/P to O/P: 3 KVAC I/P to FG: 2 KVAC O/P to FG: 0.5 KVAC
Isolation Resistance	I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C / 70% RH
EMC Emission	EN 55032 (CISPR32) EN 61204-3 Class B EN 61000-3-2, 3
EMC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

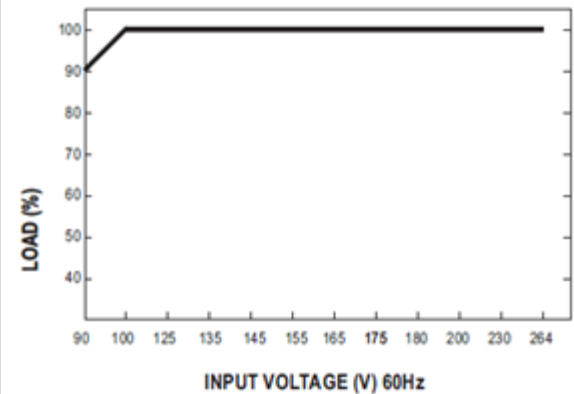


Derating Curve

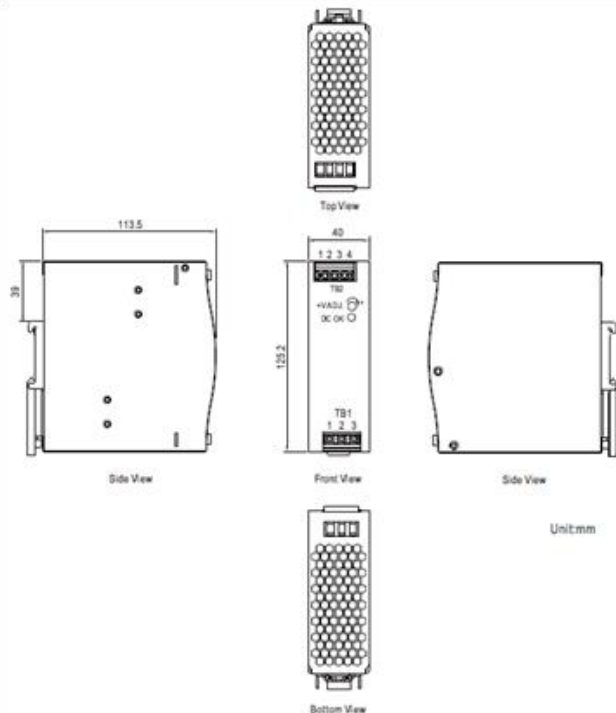
Output Derating vs. Ambient Temperature



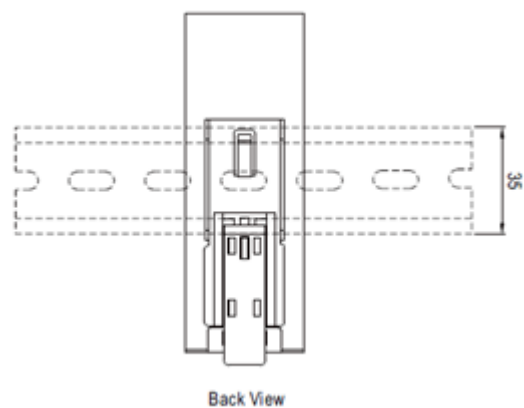
Output Derating vs Input Voltage



Mechanical



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



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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 3000 ms, 100 ms at 115V AC, Full Load
Hold Up Time	28 ms at 230V AC (Typ.) 22 ms at 115VAC, Full Load (Typ.)
Input	
Voltage Range	90 to 264 VAC 127 to 370 VDC by Connecting AC/L(+), AC/N(-)
Frequency Range	47 to 63 Hz
Power Factor	> 0.98 at 115 VAC (Typ.) > 0.95 at 230 VAC, Full Load (Typ.)
Efficiency	90% (Typ.)
AC Current	2.5 A at 115VAC (Typ.) 1.3 A at 230 VAC (Typ.)
Inrush Current	20 A at 115 VAC (Typ.) 35 A at 230 VAC (Typ.)
Leakage Current	<1 mA at 240 VAC
Protection	
Overload	105 to 130% Rated Output Power Protection Type: Constant Current Limiting, Recovers Automatically After Fault Condition is Removed
Over Voltage	56 to 65 V 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) -40 to +85°C (Storage)
Humidity	20% to 95% Non-condensing (Operating) 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) IEC60068-2-6 (Mounting)



Safety & EMC

Safety Standards	UL508, TUV EN60950-1; EN60204-1
Withstand Voltage	I/P to O/P: 3 KVAC I/P to FG: 2 KVAC 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) EN 61204-3 Class B EN 61000-3-2, 3
EMC Immunity	EN 61000-4-2, 3, 4, 5, 6, 8, 11 EN 55024 EN 61000-6-2 (EN 50082-2) EN 61204-3 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

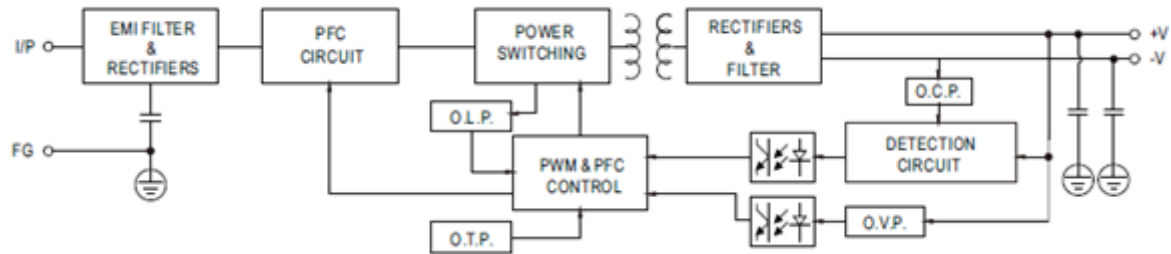
CE, CB, UL, RCM

Ordering Information

Part Number: GE.PA-0240-MW

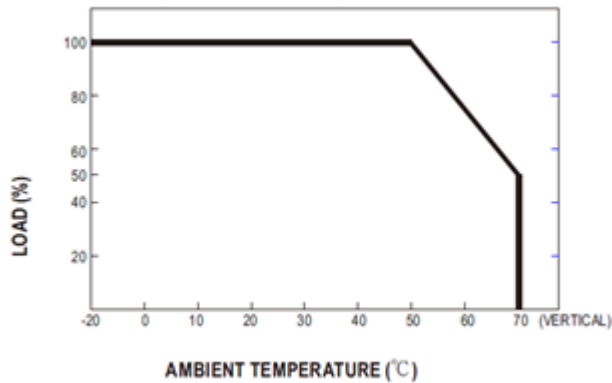
Power Adaptor for Industrial PoE Switch
(Model No.: NDR-240-48)
- 240W, DIN Rail Mounting

Block Diagram

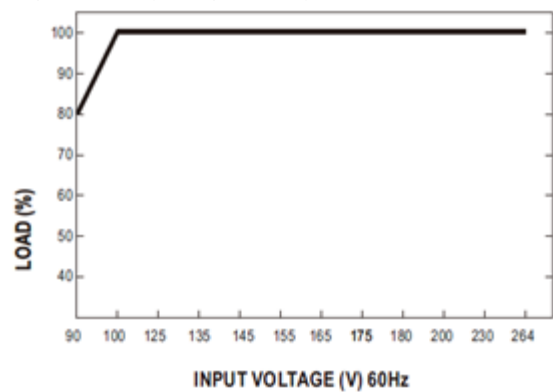


Derating Curve

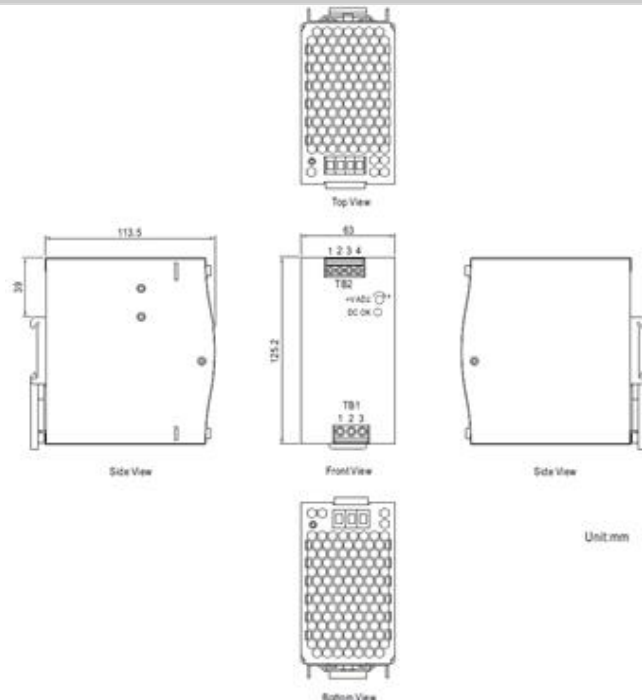
Output Derating vs. Ambient Temperature



Output Derating vs Input Voltage

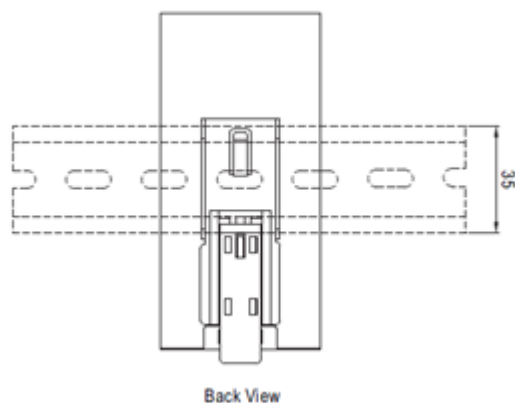


Mechanical



DIN Rail Mounting

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



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