Gigabit PoE + Injector | For Z100, X20 and AX50 Series

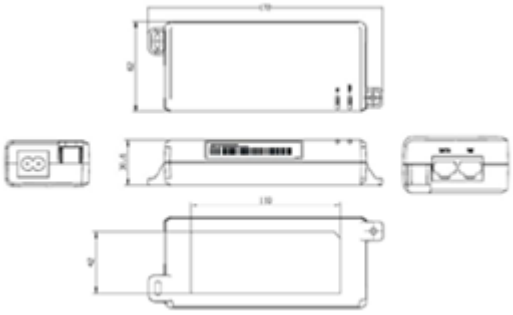
Specifications

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)

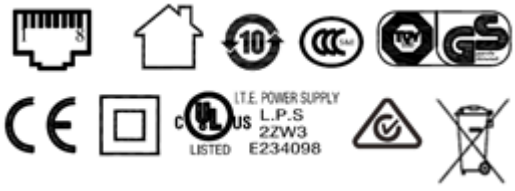


Mechanical	
Dimensions	172 x 62 x 31 mm
Weight	250 g
Input Power Receptacle	IEC 320/C8
Data	Unshielded RJ45, EIA 568A+568B
RJ-45 Pin Connections	Input: Pin 1 to 8: Data Output: Pin 1, 2, 4, 5: +VDC & Data Pin 3, 6, 7, 8: -VDC & Data
LEDs	PORT (Green = PoE OK); AC (Green = Power OK)

Diagram



Product Label



Ordering Information
Part Number: GE.PW-AT00-00
Gigabit PoE Injector For Z100, X20 and AX50 Series (Model No.: PoE35-54A)
Part Number: GE.PW-AT00-US
Gigabit PoE Injector For Z100, X20 and AX50 Series (Model No.: PoE35-54A) - US Power Cord

Version: 10 May 2026

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Gigabit PoE + Injector with Power Cords

For Z100, X20 and AX50 Series

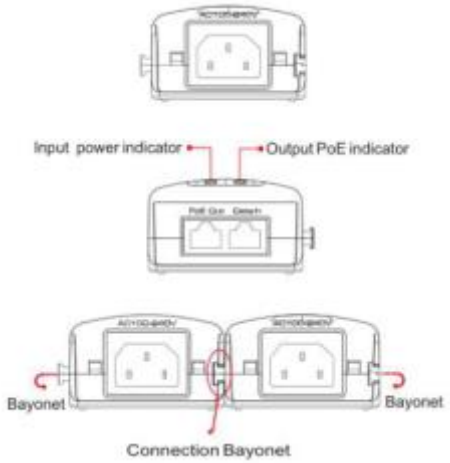
Specifications

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

CE FC RoHS

Ordering Information

Part Number: GE.PW-7201-00
Gigabit PoE+ Injector for Z100, X20 and AX50 Series - US, UK and EU Power Cords

Version: 10 May 2026

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High Power PoE Injector | For X30 and AX50 Series

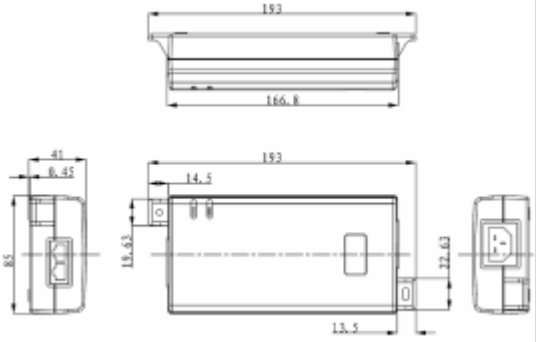
Specifications

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	10/100/1000/2500 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 and AX50 Series (Model No.: PT-PSE106GW-AR)
- Support 2.5 Gigabit Ethernet for AX50 series

Version: 10 May 2026

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Power Adaptor UK Plug | For Z100

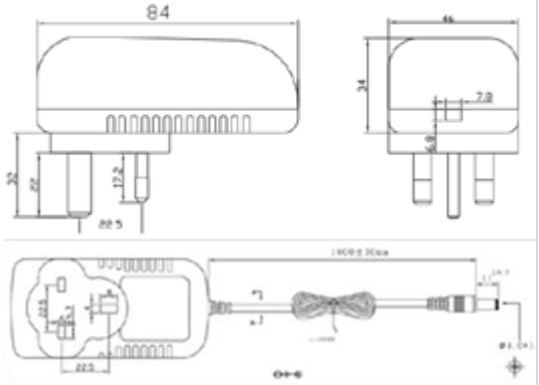
Specifications

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

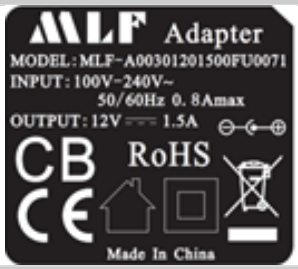


Mechanical	
Dimensions	84 x 46 x 66 mm
Weight	155 g
Reliability	
MTBF	50,000 hours (25°C, Full Load)

Diagram



Product Label



Ordering Information

Part Number: GE.PA-Z100-UK
Power Adaptor for Z100 (Model No.: MLF-A00301201500FU0071) - UK Plug

Version: 26 Oct 2026

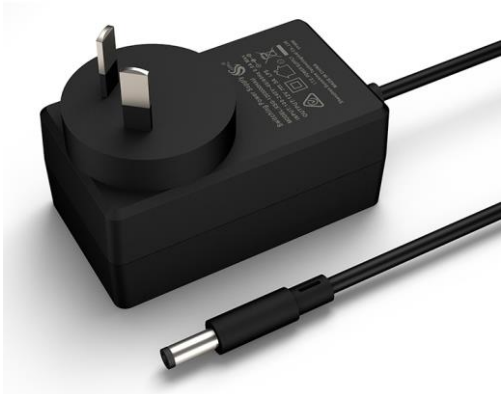
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Power Adaptor AU Plug | For Z100 | Special Item

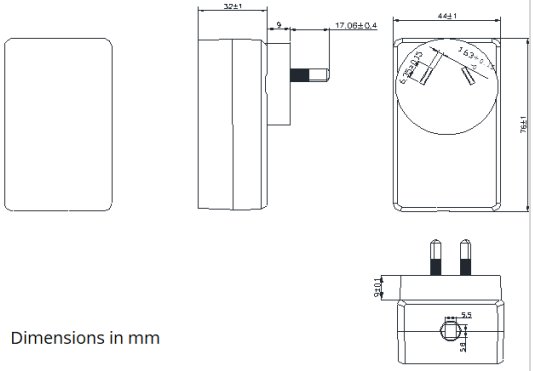
Specifications

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	50 A (Max., 264 VAC Input, Cold Start at 25°C)
Efficiency	86.2% (Min., Average, 100 to 240 VAC)
Output	
Output Rated Voltage	+12 VDC
Output Variation Voltage	11.4 to 12.6 VDC
Output Current	0 to 2 A
Turn-on Delay	3 s (Max., 115 VAC Input, Full Load)
Hold-up Time	5 ms (Min., Full Load, 115 VAC)
Output Overshoot/ Undershoot	10% (Max., When Power On or Off)
Ripple and Noise	200 mV p-p (Max.)
Protection	
Short Circuit Protection	Yes, Self-recovery
Over Current Protection	Yes (At Max. Load 110 to 170%), Self-recovery
Environmental	
Operating Temperature	0 °C to +40 °C
Storage Temperature	-30 °C to +70 °C
Relative Humidity	10 to 90%
Storage Humidity	10 to 90%
Vibration	IEC 721-3-3 3M3 (Operating); MIL-STD-810D (Transportation)
Safety	
Dielectric Strength	3,300 VAC/ 10 mA/ 1 minute/ 3 s for Production
Insulation Resistance	50 MΩ (Min., 500 VDC)
Leakage Current	0.25 mA Class II(Max. Input Voltage and Load)
Regulatory Standards	AS/NZS 60950-1:2011& AS/NZS 3112:2011
EMI Standards	EN 55022 Class B
EMS Standards	EN 55035: 2017; Part 15 Subpart B; IC ICES-003



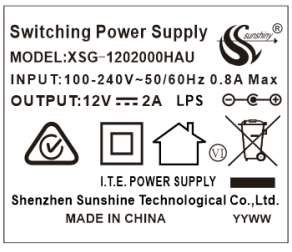
Mechanical	
Dimensions	76 x 44 x 32 mm
Weight	198 g
Reliability	
MTBF	50,000 hours (25°C, Full Load)

Diagram



Dimensions in mm

Product Label



Ordering Information

Part Number: GE.PA-Z100-AU
Power Adaptor for Z100 (Model: No.: XSG-1202000HAU) - AU Plug

Version: 26 Oct 2026

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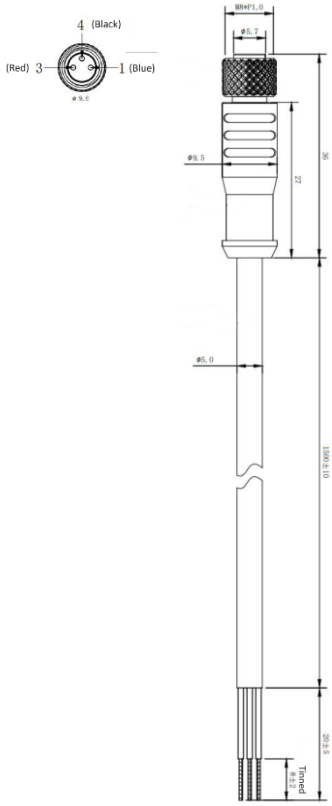
DC Power Cable | For X22e and AX50 Series DC Power Connection

Specifications

Product	
Connector	M8, 3-pin, Female Straight
Cable Length	1.5 m
Conductor	
Wire Gauge	20 AWG 26/ 0.16 mm Tinned Copper Strained Wire
Outer Diameter	0.94 mm
Cross Sectional Area	0.5228 mm^2
Conductance	102.5% IACS
Stretching Length	20%
Connector Resistance	45.2 Ω/ km
Wire Insulation	
Material	Flame Retardant PVC
Thickness	0.35±0.05 mm
Outdoor Diameter	Ø1.50±0.1 mm
Color	Red (+), Black (-), Blue (-)
Insulation Resistance	0.011 MΩ/ km
Dielectric Strength	3000 V/ min
Cable Jacket	
Material	105°C 300V PVC
Thickness	0.8 mm
Outdoor Diameter	Ø5±0.2 mm
Color	Black
Insulation Resistance	0.011 MΩ/ km
Dielectric Strength	3000 V/ min
Connector	
Plastic Housing	60P Black Cold Resistant PVC, Black Color, Matte Surface
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 and AX50 Series - M8-3 female

Version: 21 Jun 2026

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12-48V DC-DC Convertor, 48W, M8| For AX50 Series

Vehicle Battery DC Power Connection| Special Item

Specifications

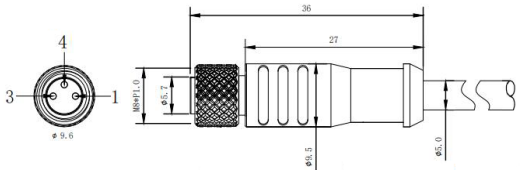
Electrical	
Rated Input Voltage	12 VDC
Input Voltage Range	9~16 VDC
Output Voltage	48 VDC
Output Current	1 A (Max.)
Rated Output Power	48 W (Max.)
Voltage Regulation	±1%
Load Regulation	2%
Non-isolated	Yes
Protection	Short-circuit, Over-load, Over-temperature, Over-voltage Protection
Input Cable	
Cable Length	1,500 mm
Cable Structure	2-wire Cable
Wire Gauge	AWG 18
Connector Material	Tinned Copper Wire
Outer Jacket Material	PVC, Black Color
Wire Assignment	Red Wire (+), Black Wire (-)
Output Cable	
Cable Length	300 mm (Excludes Connector)
Cable Structure	2-wire Cable
Wire Gauge	AWG 20
Connector Material	26/ 0.16 mm Tinned Copper Strained Wire
Outer Jacket Material	105°C 300V PVC, Black Color
Output Connector	
Connector	M8, 3-pin, Female Straight
Pin Assignment	Pin 1 (-), Pin 3 (+), Pin 4 (-). Matching AX50 Series M8-3 DC Input Socket
Plastic Housing	PVC, Black Color, Matte Surface
Contacts Material	Copper Alloy
Plating	Gold Plating Over Nickel
O-ring	Silicone Rubber, Black Color
Coupling Nut	M8 x P1 Brass with Nickel Plated
Environment	
Operating Temperature	-30°C to 80°C
Storage Temperature	-40°C to 85°C
Humidity	10% to 90% (Non-condensing)
Weatherproof	IP67 (Shell)
Shell Material	Aluminum Shell
Dimensions	66 x 57 x 22 mm (Shell)
Weight	180 g (Net)
Certification	CE EMC, LVD, RoHS Compliance



Connection Diagram



M8-3 Connector Diagram



Ordering Information

Part Number: NS.PA-D048-03

12 to 48 VDC 48W 1A DC-DC converter
- Aluminum Shell, IP67, 1.5m Input Wires

Version: 21 Jun 2026

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Anywhere

4-port Industrial High Power PoE Switch

Unmanaged, 1st Port up to 60W

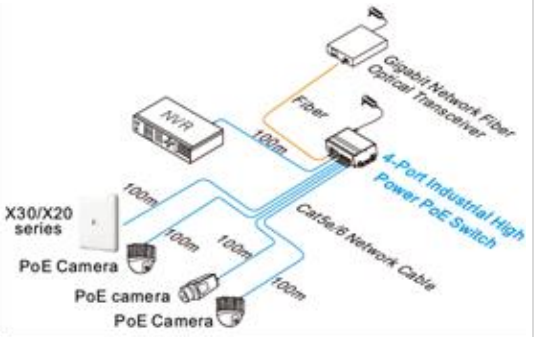
Specifications

PoE Switch	
Switch Processing Scheme	Store and Forward, Unmanaged
Downlink Ports	4 × 10/100/1000Base-T RJ45 (Auto-MDI/MDI-X)
Uplink Ports	1 x 1000 Mbps SFP 1 x 10/100/1000BaseT 1 x 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

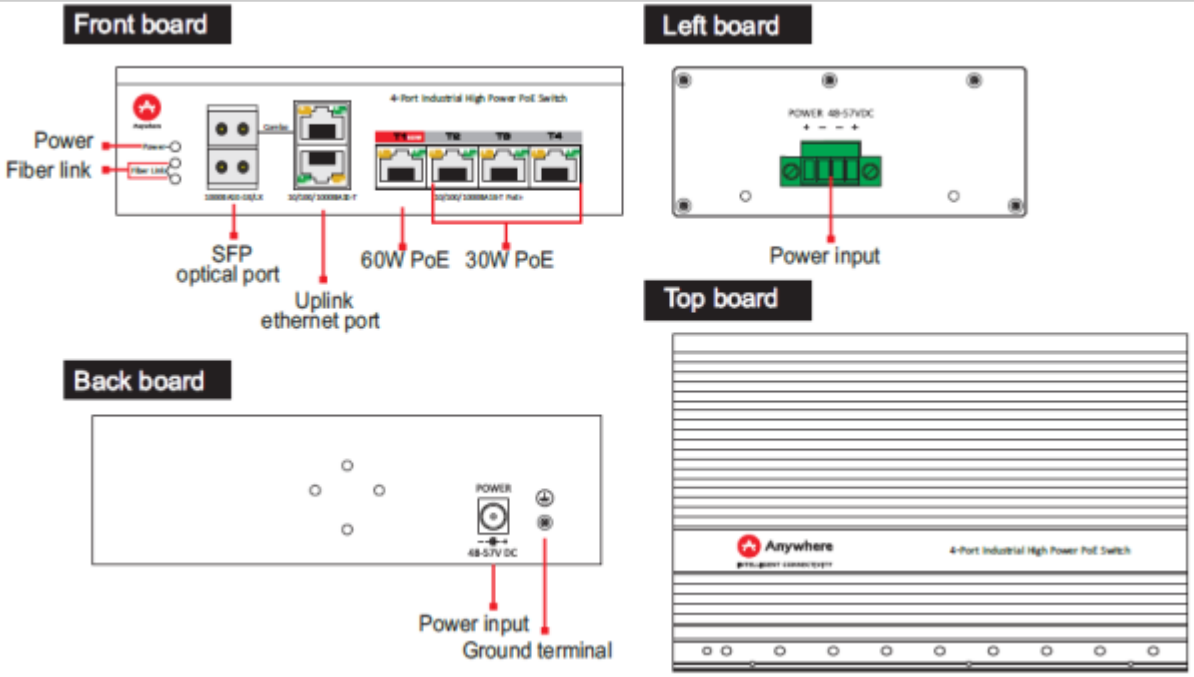


Ordering Information

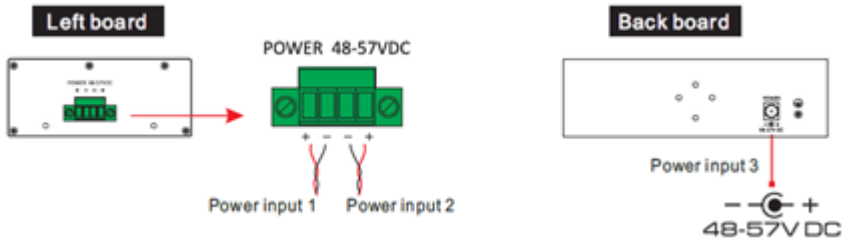
Part No.: GE.SW-7204-0H
4-port Industrial High Power PoE Switch - Unmanaged, 4-port, 1st Port up to 60W (Microsemi Solution), Other Ports up to 30W, DIN Rail Hanger, Wall Hanger

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Interface Diagram

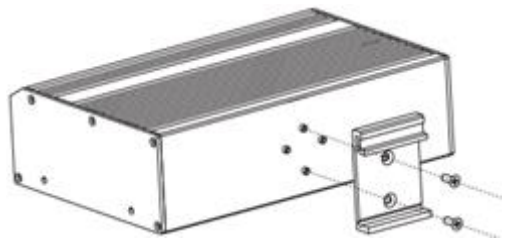


Power Supply Connection

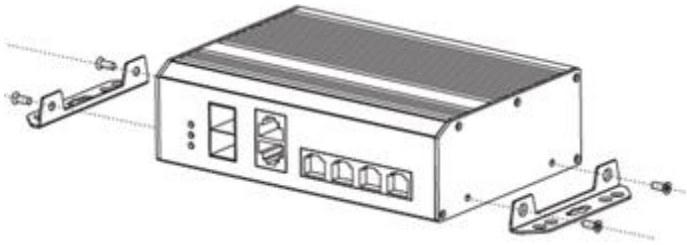


Installation

DIN Rail Mounting



Wall Mounting



Version: 26 Oct 2026

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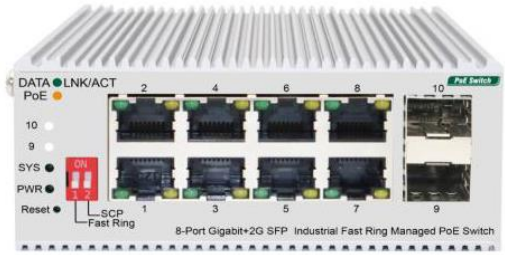
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8-port Industrial L2 Managed PoE Switch

8 Ports GE 802.3at 30W, 2 Ports 1G SFP

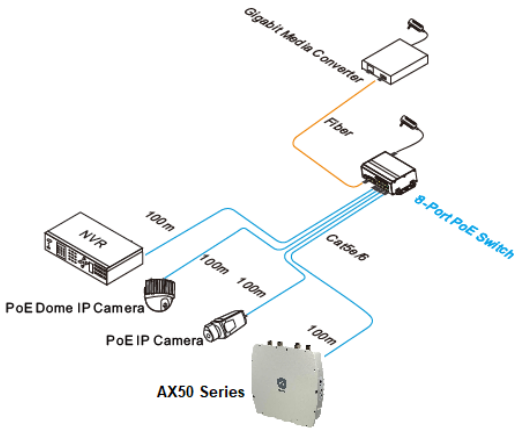
Specifications | Special Item

Hardware	
Downlink Ports	8 × 10/100/1000Base-T PoE+ RJ45
Uplink Ports	2 x 1GBase-X SFP
Management Ports	1 x Console Port
Other Ports	2 x Pheonix Terminal, Relay, Ground
Reset Button	Reset (≥ 5s)
LED	PWR, LNK/ACT, PoE, SYS
Switching	
Forwarding Mode	Store and Forward
Switching Capacity	20 Gbps
Packet Forwarding Rate	14.88 Mbps
Memory Buffer	4.1 Mbit
MAC Table	8K, Auto-learning, Auto-aging
Jumbo Frame	9 kB
PoE	
PSE Type	End-span
PoE Output Voltage	55 VDC
PoE Output Voltage Range	50 to 57 VDC
PoE Standard	802.3af/at
PoE Budget	Ports 1~8: 30 W (Max.) Whole Switch: 120 W (Max.)
PoE Pin Assignment	Ports 1~8: 3/6 (+), 1/2 (-)
Environmental	
Operating Temperature	-40 °C to +75 °C
Storage Temperature	-40 °C to +80 °C
Relative Humidity	5 to 95% (Non-condensing)
Surge Protection	±2kV Differential Mode, ±6kV Common Mode
ESD	±6 kV Contact Discharge, ±8 kV Air Discharge
MTBF	100,000 hr
Compliance	
Certification Compliance	FCC[1], CE[1], RoHS
Mechanical	
Dimensions (W×H×D)	110 x 46 x 90 mm
Weight	600 g
Installation	DIN Rail, Desktop and Wall Mounted
Casing Design	Fan-less Aluminum Alloy Roof Heat Dissipation Design
Casing Material	Aluminum
Casing Color	Aluminum



Power	
Power Input	Redundant Power Input
Input Voltage Range	48 to 57 VDC 43~57 VDC for AX50 Series 55 VDC for X32/ X32e 54 VDC for X20/ X22e
Power Consumption	130 W (Max., Includes PoE)

Dimensions Diagram



Ordering Information
Part No.: GE.SW-2008-2M
8-port Industrial L2 Managed PoE Switch - 8-port GE 30W, 2-port 1G SFP, 185W PoE Budget, 48-57VDC Input, DIN Rail or Wall Mounting

[1]available in future

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Anywhere

Software Features

L2 Features	
MAC Address Table	MAC Address Size MAC Aging Time MAC Filter MAC Notification
Basic Management	Console/Telnet/SSH Http/Https, SSL/TLS FTP/TFTP Syslog SNMP(v1/v2c/v3), SNMP Trap SNTP/NTP CPU Protect Software/Hardware Watchdog Firmware Upgrade/Backup Ping/Traceroute
Port Configuration	Bandwidth Control Flow Control EEE MTU CFM (802.1ag) EFM OAM (802.3ah) DDM Storm Control Port Isolation Port Security Virtual Cable Test ULDP/Cisco UDLD
Discovery	LLDP (802.1ab) LLDP-MED
Link Aggregation	Static LACP (802.3ad) Load Balance (src-mac/dst-mac/src-ip/dst-ip) Max groups and Ports Per Group
VLAN	VLAN (802.1Q 4K) Access/Trunk/Hybrid Private VLAN VLAN Filter MAC-based VLAN Protocol-based VLAN IP Subnet-based VLAN Voice VLAN GVRP/GMRP QinQ/Selective-QinQ/Flexible QinQ VLAN Translation/N:1 VLAN Translation Guest VLAN
Network Loop Detection	Loopback Detection ERPS
Spanning Tree	STP/RSTP/MSTP MSTP Support 64 instance BPDU Guard/Root Guard/BPDU Tunnel

ARP	Static ARP ARP Scanning Prevention ARP Spoofing Prevention ARP Guard Gratuitous ARP Dynamic ARP Inspection ARP Quantity Control
IPv4 Related Functions	
ICMP	Anti ICMP Attack ICMP Rate Limit ICMP Unreachable Drop
IP Forward	Static Route Route Aggregation
Control Multicast	DCSCM
Multicast VLAN	Multicast VLAN
IGMP	IGMP SNOOPING V1/V2/V3 Fast Leave IGMP Proxy
DHCP	DHCP Server DHCP Client/BOOTP DHCP Relay DHCP Snooping DHCP Option 82/43/60/61/67
IPv6 Related Functions	
IPv6 Basic	IPv6 ND Snooping
DHCPv6	DHCPv6 Server DHCPv6 Relay DHCPv6 Snooping IPv6 SAVI Security RA
IPv6 Unicast Routing	Static Route
IPv6 Multicast Routing	MLD v1/V2 Snooping
IPv6 Features	SNMP over IPv6 Support HTTP over IPv6 Support SSH over IPv6 Support DNS over IPv6 Support IPv6 ping/traceroute Support IPv6 Telnet Support IPv6 Radius+ Support IPv6 Tacacs+ Support IPv6 SNTP/NTP Support IPv6 FTP/TFTP Support IPv6 IPSec Support IPv6 ACL

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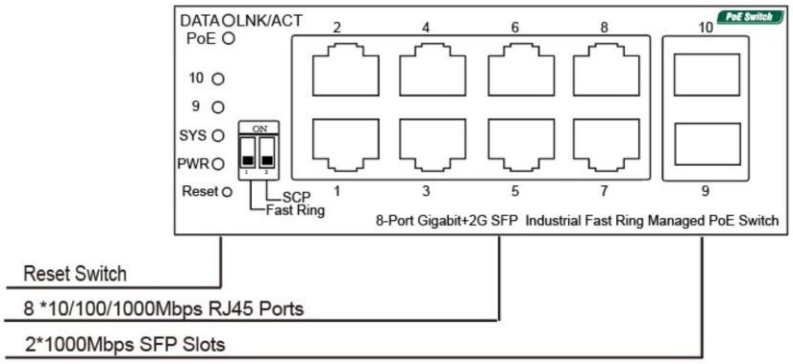
QoS (Quality Of Service)	
Basic	Trust COS/DSCP Trust Port
Scheduling	SP WRR WDRR
PolicyMap Stream	Based on VLAN Based on COS/DSCP Aggregate PolicyMap Ingress PolicyMap
Policing	CAR Stream Shaping (Leak Agorithm) Ingress Policing
Rewrite	COS/802.1p Priority IP Precedence IPv4 DSCP/IPv6 DSCP Drop-precedence Internal Priority Ingress/Egress Rewrite
Queuing	DSCP to DSCP Mapping DSCP to DP Mapping DSCP to Queue Mapping COS to DP Mapping COS to Queue Mapping
ACL	
IP-ACL	SIP/DIP IP Protocol IP Priority (DSCP, TOS, Precedence) TCP, UDP src, dst Port
MAC-ACL	SRC/DST MAC VLAN COS Tag/Untag
IP MAC-ACL	MAC-ACL and IP-ACL
User-defined ACL	Based on User Defined Profile
ACL Features	Based on Time Period ACL ACL on VLAN Based on ACL Stream

Security	
802.1x	Port Based Authentication Support EAPoR MAC based Authentication Guest VLAN
MAB	Based on Port Authentication Based on MAC Authentication
MAC Address Count Limit	Based on Port Based on VLAN
IP Address Count Limit	Based on Port Based on VLAN
Access Management	Based on Source MAC and IP Address
Deny DoS Attack	TCP Flag TCP Flagment IP Segment ICMP
TACACS+	Standard Support
Radius	Standard Support Client, Support MD5
SSL	Openssl 1.1.0
Redundancy Related Functions	
MRPP	Compatible ERRP
ULPP	Uplink Protection Protocol
ULSM	Uplink State Monitor
Flow Monitor Functions	
Mirror	Support One to One, Multi to One Port-based Mirror, Support Ingress, Egress and Both CPU-based Mirror Flow-based Mirror RSPAN
PoE	
PoE Management	ON/OFF Config Alive Checking for PD 7/24 On/Off Scheduling

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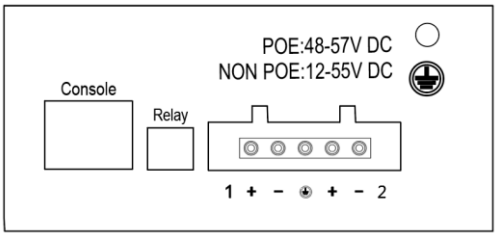
Interface Diagram

Front Panel

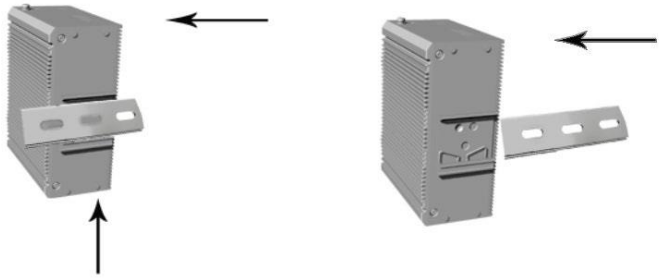


Power Supply Connection

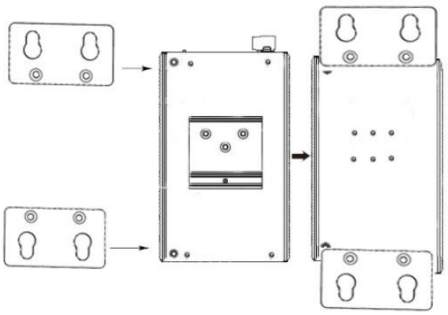
Side Panel



DIN Rail Mounting



Wall Mounting



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8-port Industrial L3 Managed PoE Switch

8 Ports GE 802.3at 30W, 4 Ports 10G SFP+

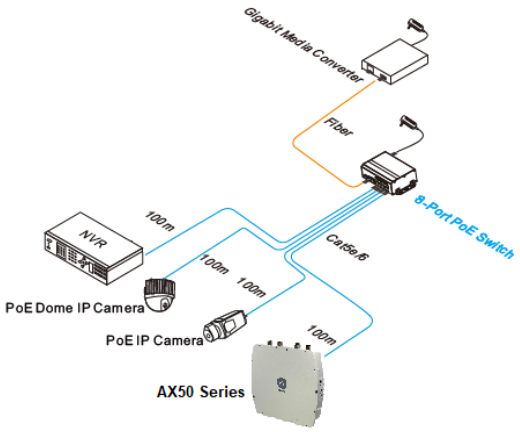
Specifications | Special Item

Hardware	
Downlink Ports	8 × 10/100/1000Base-T PoE+ RJ45
Uplink Ports	4 x 10GBase-X SFP+
Management Ports	1 x Console Port
Other Ports	2 x Pheonix Terminal, Relay, Ground
Reset Button	Reset (≥ 5s)
LED	PWR (Green), LNK/ACT (Green), PoE (Orange), SYS (Green)
Switching	
Forwarding Mode	Store and Forward
Switching Capacity	96 Gbps
Packet Forwarding Rate	71.42 Mbps
Memory Buffer	12 Mbit
MAC Table	16K, Auto-learning, Auto-aging
Jumbo Frame	12 kB
PoE	
PSE Type	End-span
PoE Output Voltage	55 VDC
PoE Output Voltage Range	50 to 57 VDC
PoE Standard	802.3af/at
PoE Budget	Ports 1~8: 30 W (Max.) Whole Switch: 240 W (Max.)
PoE Pin Assignment	Ports 1~8: 3/6 (+), 1/2 (-)
Environmental	
Operating Temperature	-40 °C to +75 °C
Storage Temperature	-40 °C to +80 °C
Relative Humidity	5 to 95% (Non-condensing)
Surge Protection	±2kV Differential Mode, ±4kV Common Mode
ESD	±6 kV Contact Discharge, ±8 kV Air Discharge
MTBF	50,000 hr
Compliance	
Certification Compliance	FCC[1], CE[1], RoHS
Mechanical	
Dimensions (W×H×D)	145 x 62 x 109 mm
Weight	1,180 g
Installation	DIN Rail, Desktop and Wall Mounted
Casing Design	Fan-less Design
Casing Material	Aluminum
Casing Color	Aluminum



Power	
Power Input	Redundant Power Input
Input Voltage Range	48 to 57 VDC 43~57 VDC for AX50 Series 55 VDC for X32/ X32e 54 VDC for X20/ X22e
Power Consumption	260 W (Max., Includes PoE)

Dimensions Diagram



Ordering Information

Part No.: GE.SW-3008-3M
8-port Industrial L3 Managed PoE Switch - 8-port GE 30W, 4-port 10G SFP+, 185W PoE Budget, 48-57VDC Input, DIN Rail or Wall Mounting

[1]available in future

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Anywhere

Software Features

L3 Features	
DHCP Server	DHCP Server DHCPv6 Server
Route	Static Route (IPV4/IPV6) Route Aggregation
RIP	RIP v1/v2
OSPF	OSPF v2
BGP	BGP4
L2 Features	
MAC Address Table	MAC Aging Time MAC Filter MAC Notification
Basic Management	Console/Telnet/SSH Http/Https, SSL/TLS FTP/TFTP Syslog SNMP(v1/v2c/v3), SNMP Trap SNTP/NTP CPU Protect Software/Hardware Watchdog Firmware Upgrade/Backup Ping/Traceroute
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Spanning Tree	STP/RSTP/MSTP MSTP Support 64 instance BPDU Guard/Root Guard/BPDU Tunnel
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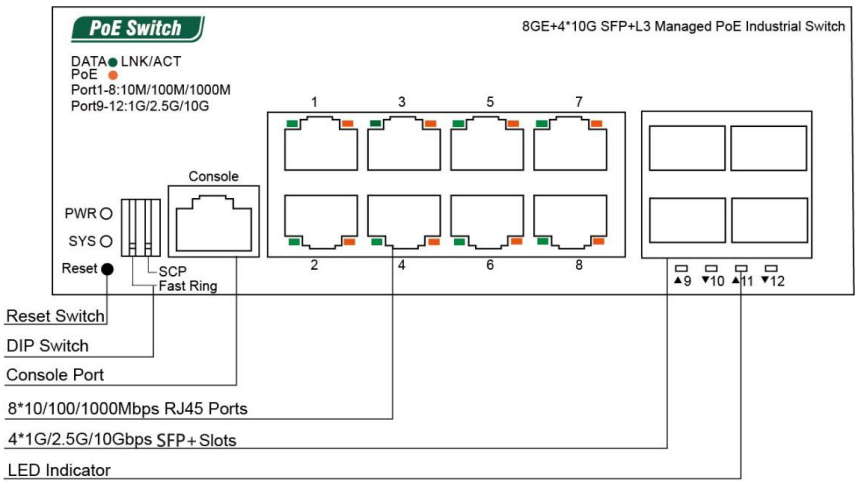
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User-defined ACL	Based on User Defined Profile
ACL Features	Based on Time Period ACL ACL on VLAN Based on ACL Stream

Security	
802.1x	Port Based Authentication Support EAPoR MAC based Authentication Guest VLAN
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MAC Address Count Limit	Based on Port Based on VLAN
IP Address Count Limit	Based on Port Based on VLAN
Access Management	Based on Source MAC and IP Address
Deny DoS Attack	TCP Flag TCP Flagment IP Segment ICMP
TACACS+	Standard Support
Radius	Standard Support Client, Support MD5
SSL	Openssl 1.1.0
Redundancy Related Functions	
MRPP	Compatible ERRP
ULPP	Uplink Protection Protocol
ULSM	Uplink State Monitor
Flow Monitor Functions	
Mirror	Support One to One, Multi to One Port-based Mirror, Support Ingress, Egress and Both CPU-based Mirror Flow-based Mirror RSPAN
PoE	
PoE Management	ON/OFF Config Alive Checking for PD 7/24 On/Off Scheduling

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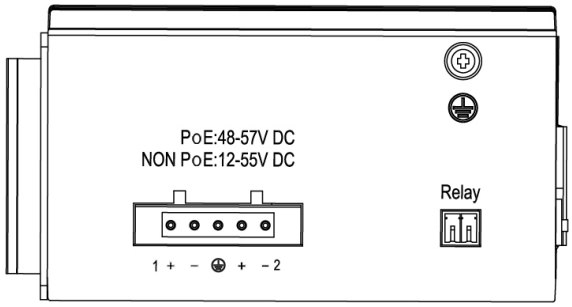
Interface Diagram

Front Panel

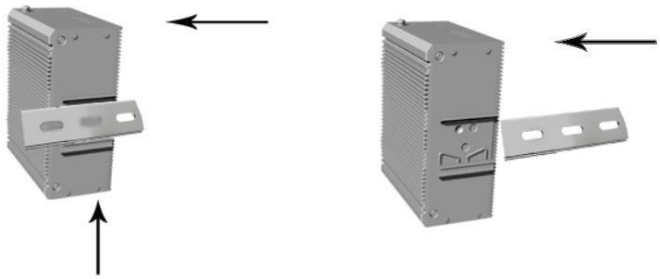


Power Supply Connection

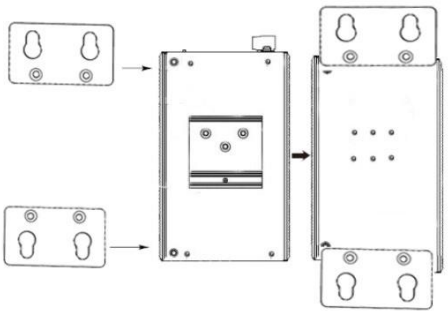
Side Panel



DIN Rail Mounting



Wall Mounting



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Anywhere

8-port L3 Managed 2.5G PoE Switch

8 Ports 2.5GE 802.3at 30W, 2 Ports 10G SFP+

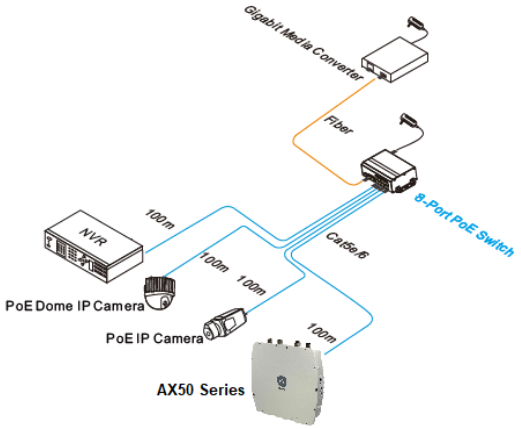
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Other Ports	Grounding
Reset Button	Reset (≥ 5s)
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Forwarding Mode	Store and Forward
Switching Capacity	80 Gbps
Packet Forwarding Rate	59.52 Mbps
Memory Buffer	12 Mbit
MAC Table	16K, Auto-learning, Auto-updating
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PSE Type	End-span
PoE Output Voltage	55 VDC
PoE Output Voltage Range	50-57 VDC
PoE Standard	802.3af/at
PoE Budget	Ports 1~8: 30 W (Max.) Whole Switch: 150 W (Max.)
PoE Pin Assignment	Ports 1~8: 3/6 (+), 1/2 (-)
Environmental	
Operating Temperature	0 °C to +40 °C
Storage Temperature	-40 °C to +70 °C
Relative Humidity	10 to 95% (Non-condensing)
Surge Protection	±2kV Differential Mode, ±4kV Common Mode
ESD	±6 kV Contact Discharge, ±8 kV Air Discharge
MTBF	100,000 hr
Compliance	
Certification Compliance	FCC[1], CE, RCM, RoHS
Mechanical	
Dimensions (W×H×D)	330 x 44 x 230 mm
Weight	2,910 g
Installation	1U Rack Mounted
Casing Design	Fan-less Design
Casing Material	Iron
Casing Color	Black



Power	
Power Input	AC
Input Voltage Range	100~240VAC, 50/60Hz, 2.3A Max
Power Consumption	180 W (Max., Includes PoE)

Dimensions Diagram



Ordering Information
Part No.: GE.SW-3208-3M
8-port L3 Managed 2.5G PoE Switch - 8-port 2.5GE 30W, 2-port 10G SFP+, 150W PoE Budget, 100-240VAC Input, 1U Rack Mounting

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Anywhere

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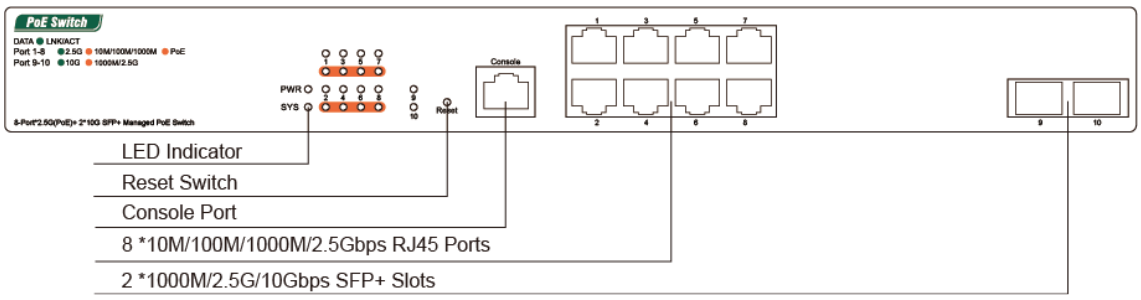
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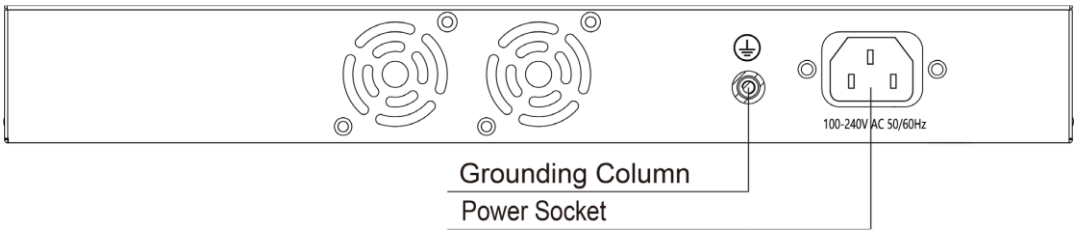
Interface Diagram

Front Panel

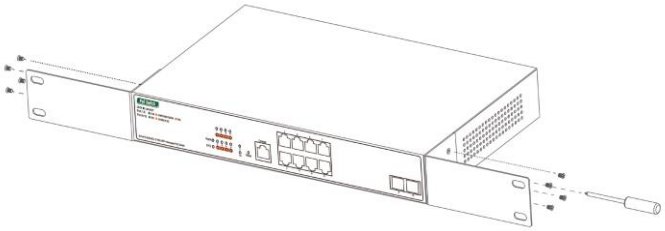


Power Supply Connection

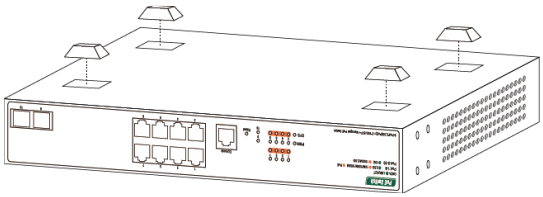
Rear Panel



Rack Mounting



Desktop Mounting



Version: 09 May 2026

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Anywhere

Power Adaptor, 240W

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℃ (Operating) -40 to +85℃ (Storage)
Humidity	20% to 95% Non-condensing (Operating) 10% to 95% (Storage)
Temperature Coefficient	±0.03%/ ℃ (0 to 50℃)
Vibration	10 ~ 500 Hz, 2G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component) IEC60068-2-6 (Mounting)

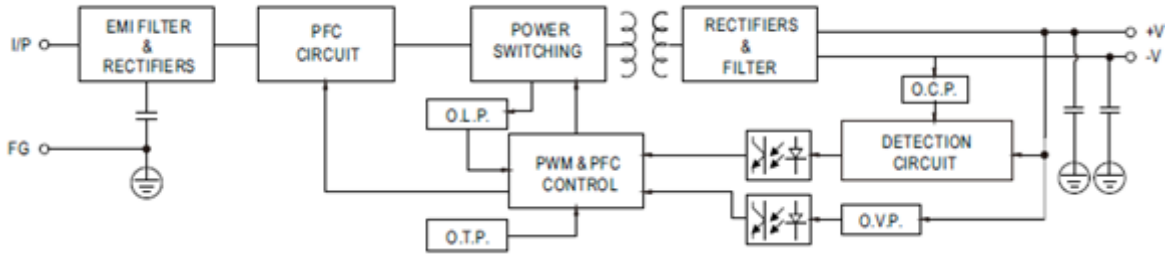


Safety & EMC	
Safety Standards	UL508, TUV EN60950-1; EN60204-1
Withstand Voltage	I/P to O/P: 3 KVAC I/P to FG: 2 KVAC O/P to FG: 0.5 KVAC
Isolation Resistance	I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25℃/ 70% RH
EMC Emission	EN 55032 (CISPR32) EN 61204-3 Class B EN 61000-3-2, 3
EMC Immunity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

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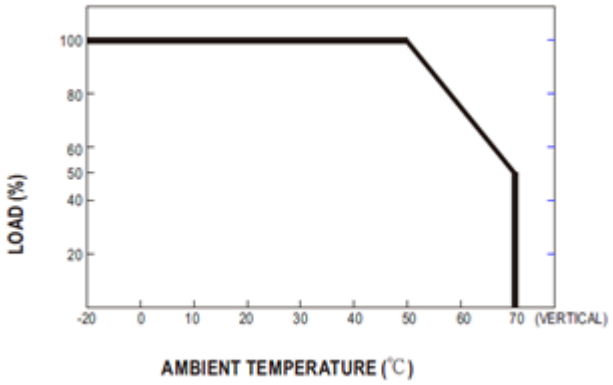
Version:

Block Diagram

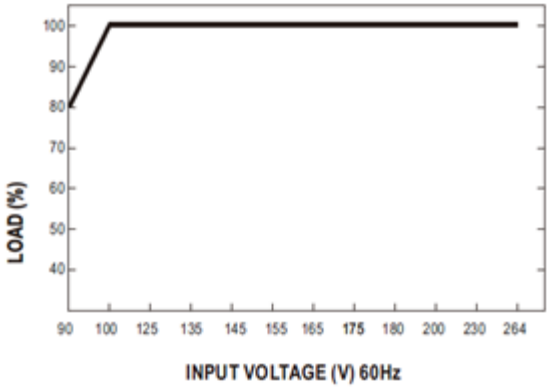


Derating Curve

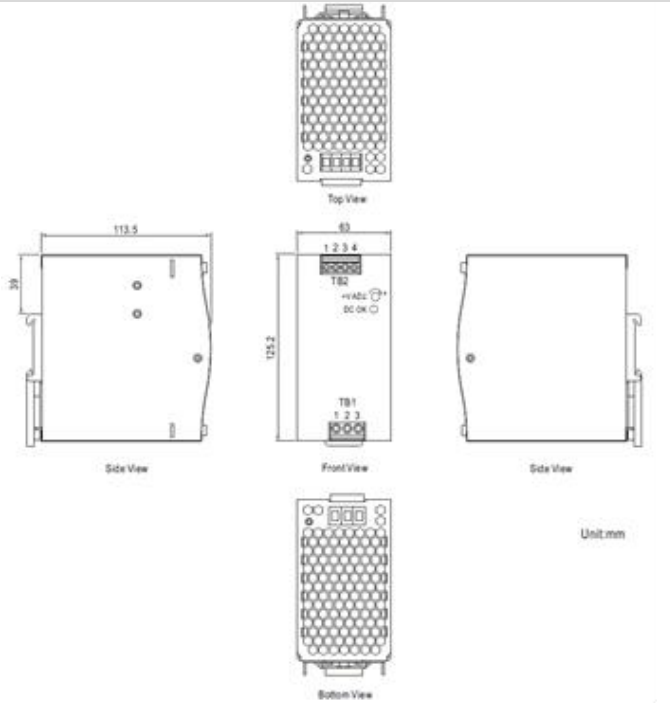
Output Derating vs. Ambient Temperature



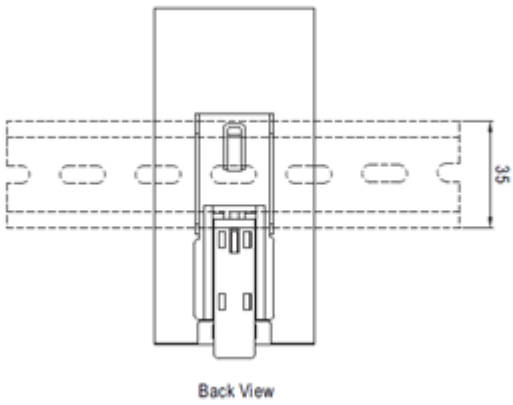
Output Derating vs Input Voltage



Mechanical



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



26 Oct 2026

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Anywhere

Power Adaptor, 120W

Specifications

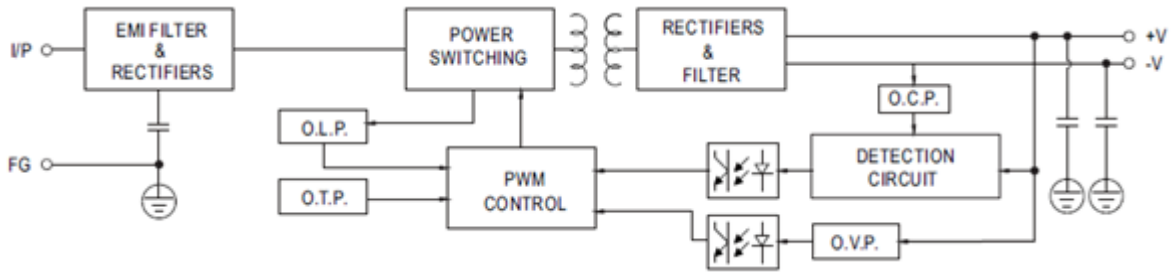
Output	
DC Voltage	48 V
Rated Current	2.5 A
Current Range	0 to 2.5 A
Rated Power	120 W
Ripple & Noise	150 mV p-p
Voltage Adjustment Range	48 to 55 V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Setup, Rise Time	1200 ms, 60 ms at 230 VAC 2500 ms, 60 ms at 115V AC, Full Load
Hold 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℃ (Operating) -40 to +85℃ (Storage)
Humidity	20% to 95% Non-condensing (Operating) 10% to 95% (Storage)
Temperature Coefficient	±0.03%/ ℃ (0 to 50℃)
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℃/ 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℃)
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	

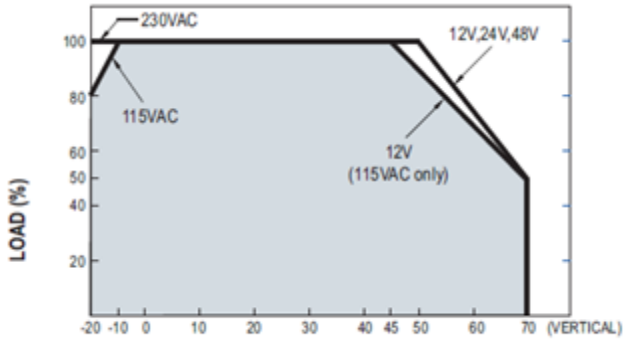
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Block Diagram

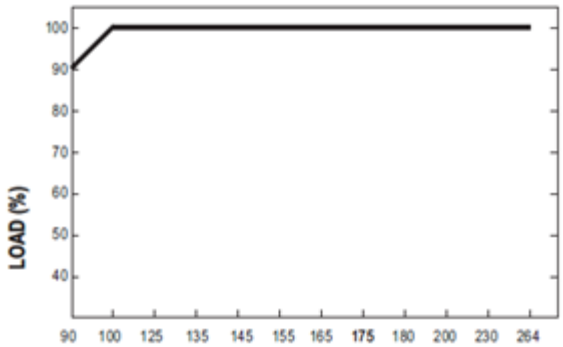


Derating Curve

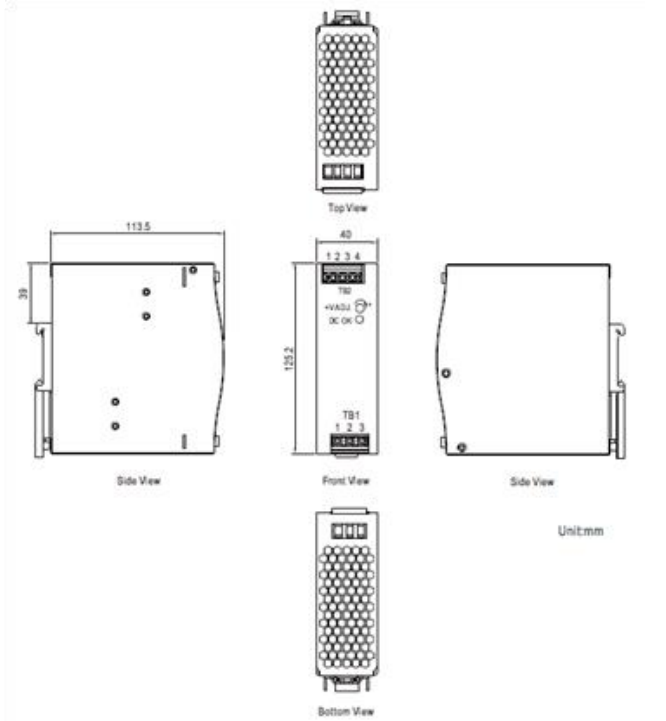
Output Derating vs. Ambient Temperature



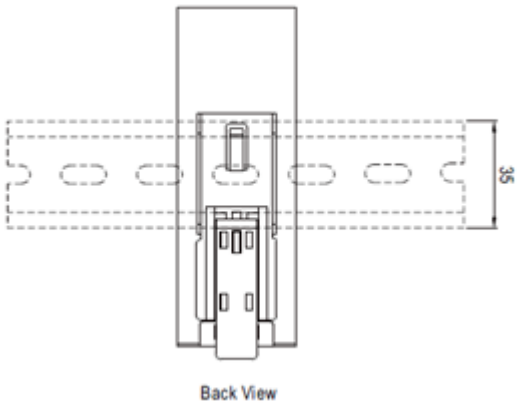
Output Derating vs Input Voltage



Mechanical



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



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Anywhere

Power Adaptor, 480W | Special Item

Specifications

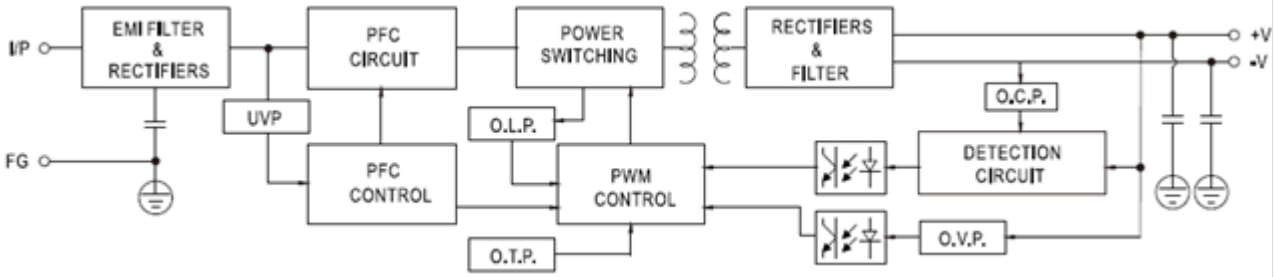
Output	
DC Voltage	48 V
Rated Current	10 A
Current Range	0 to 10 A
Rated Power	480 W
Ripple & Noise	150 mV p-p
Voltage Adjustment Range	48 to 55 V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Setup, Rise Time	1500 ms, 100 ms at 230 VAC 3000 ms, 100 ms at 115V AC, Full Load
Hold Up Time	16 ms at 230V AC (Typ.) 16 ms at 115VAC, Full Load (Typ.)
Input	
Voltage Range	90 to 264 VAC 127 to 370 VDC
Frequency Range	47 to 63 Hz
Power Factor	> 0.98 at 115 VAC (Typ.) > 0.94 at 230 VAC, Full Load (Typ.)
Efficiency	92.5% (Typ.)
AC Current	4.8 A at 115VAC (Typ.) 2.4 A at 230 VAC (Typ.)
Inrush Current	20 A at 115 VAC (Typ.) 35 A at 230 VAC (Typ.)
Leakage Current	<2 mA at 240 VAC
Protection	
Overload	105 to 130% Rated Output Power Protection Type: Constant Current Limiting, Unit Will Shut Down After 3 Seconds, Re-power On to Recover
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℃ (Operating) -40 to +85℃ (Storage)
Humidity	20% to 95% Non-condensing (Operating) 10% to 95% (Storage)
Temperature Coefficient	±0.03%/ ℃ (0 to 50℃)
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; EAC TP TC 004; BSMI CNS 14336-1 Approved; EN 60204-1
Withstand Voltage	I/P to O/P: 3 kV AC I/P to FG: 2 kV AC 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℃/ 70% RH
EMC Emission	EN 55032 (CISPR32) EN 61204-3 Class B EN 61000-3-2, 3 EAC TP TC 020 CNS 13438 Class B
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 EAC TP TC 020
Others	
MTBF	146.8K hr (Min.) MIL-HDBK-217F (25℃)
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) - 480W, DIN Rail Mounting	

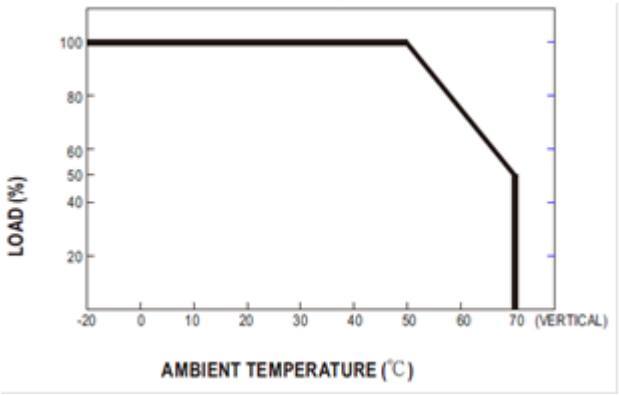
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Block Diagram

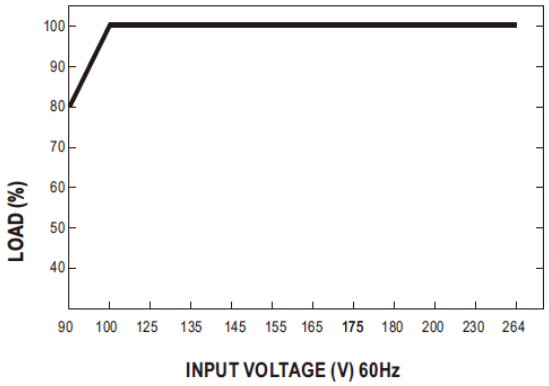


Derating Curve

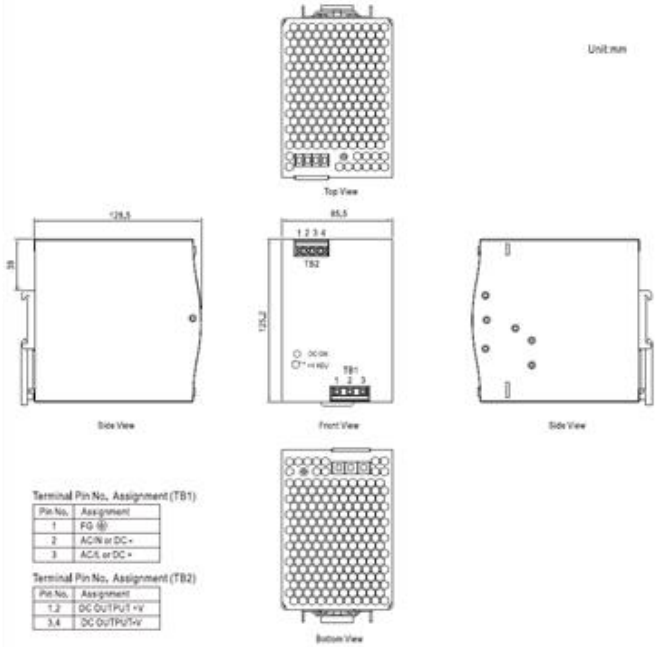
Output Derating vs. Ambient Temperature



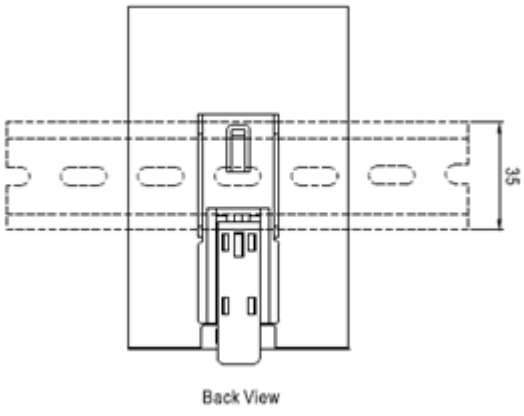
Output Derating vs Input Voltage



Mechanical



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



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Anywhere

DC-DC Power Adaptor, 240W | Special Item

Specifications

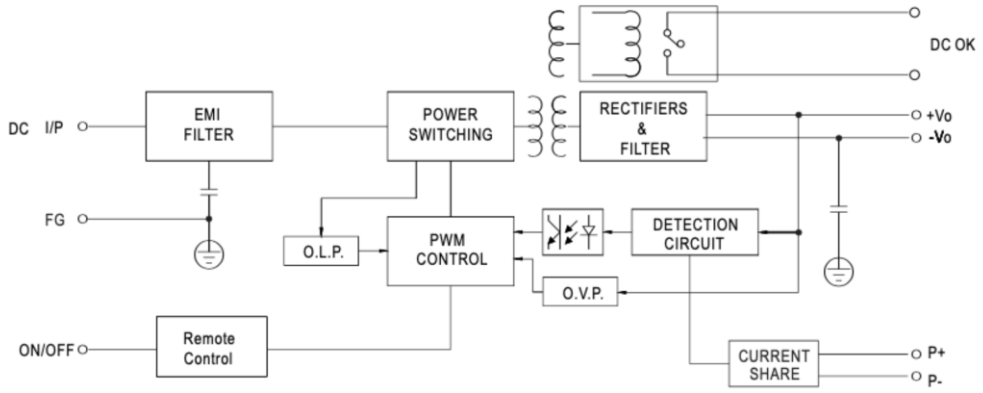
Output	
DC Voltage	48 V
Rated Current	5 A
Current Range	0 to 5 A
Rated Power	240 W
Ripple & Noise	100 mV p-p
Voltage Adjustment Range	48 to 56 V
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%
Setup, Rise Time	500 ms, 60 ms
Hold Up Time	6 ms (100% Load) 10 ms (70% Load)
Input	
Voltage Range	16.8 to 33.6 VDC (Continuous) 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 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℃ (Operating) -40 to +85℃ (Storage)
Humidity	5% to 95% Non-condensing (Operating) 5% to 95% (Storage)
Temperature Coefficient	±0.03%/ ℃ (0 to 55℃)
Vibration	10 ~ 500 Hz, 5G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component) 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 I/P to FG: 2.5 KVAC 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℃/ 70% RH
EMC Emission	EN 55032 Class B 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) 189.9 K hr (Min.) MIL-HDBK-217F (25℃)
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	

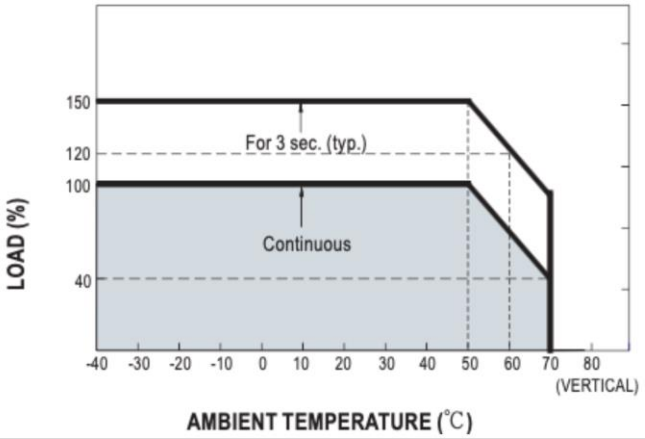
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Block Diagram

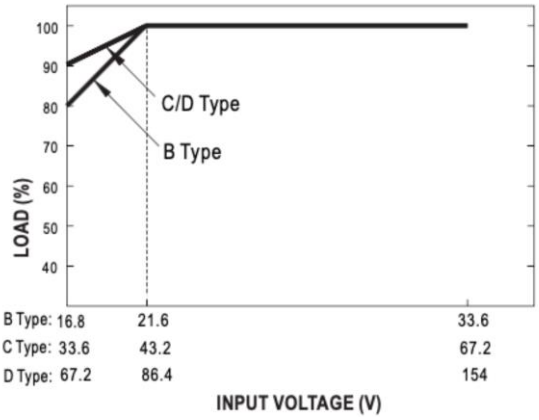


Derating Curve

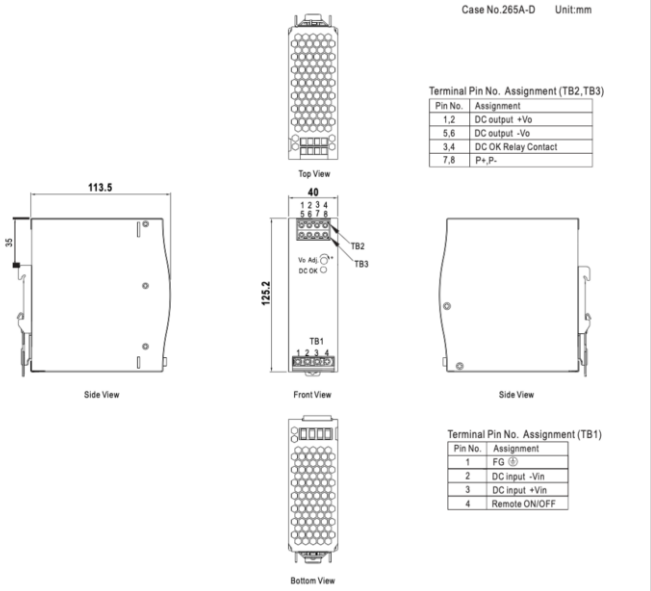
Output Derating vs. Ambient Temperature



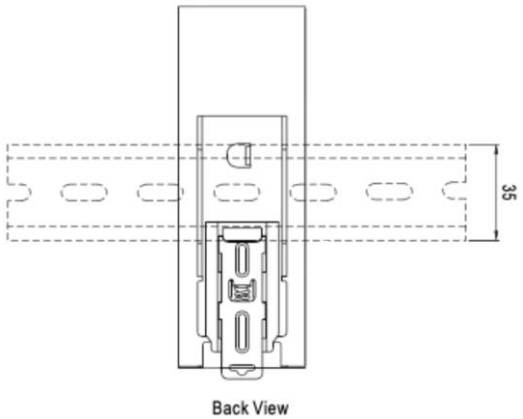
Output Derating vs Input Voltage (Type B)



Mechanical



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



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