

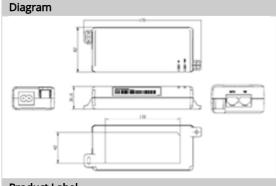
# Gigabit PoE + Injector | For Z100, Z500 and X20

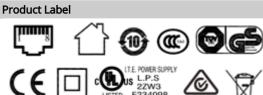
#### **Specifications**

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	FU2011/CF/FU China CI/T112C2 200C
	EU2011/65/EU, China SJ/T11363-2006
Reliability	EU2011/65/EU, China 5J/111363-2006



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)





#### Ordering Information

Part Number: GE.PW-AT00-00

Gigabit PoE Injector For Z100, Z500 and X20 Series

Version: 08 Jan 2020



# 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 ΜΩ
Leakage Current	0.25 mA
Safety Standards	IEC60950
EMC	FCC Class B, EN55022 Class B
RoHS	2011/65/EU
Reliability	

Version: 08 Jan 2020

Anywhere Networks reserves the rights to change, modify, transfer or otherwise revise the publication and the product specification without notice. All scaling metrics outlined in this document are maximum supported values. The scale may vary depending on the deployment scenario and features enabled. Visit <a href="www.anywherenetworks.com">www.anywherenetworks.com</a> or contact <a href="mailto:sales@anywherenetworks.com">sales@anywherenetworks.com</a> for more details.



#### **Product Label**



Connection Bayonet

#### **Ordering Information**

Part Number: GE.PW-7201-00

Gigabit PoE+ Injector for Z100, Z500 and X20 Series



# High Power PoE Injector for X30

#### Model PT-PSE106GW-AR

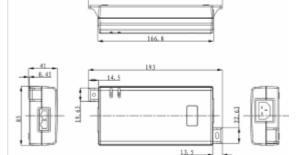
#### **Specifications**

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)           Efficiency         85% (Min. at 115 to 230 VAC Full Load)           Inrush Current         30 A (Max. at 135 VAC Cold Start)           60 A (Max. at 230 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         O °C to +40 °C	Input		
Rated Frequency         50 to 60 Hz           Variation Frequency         47 to 63 Hz           Input Current         1.5 A (Max. at 115 VAC Full Load)           Efficiency         85% (Min. at 115 to 230 VAC Full Load)           Inrush Current         60 A (Max. at 115 VAC Cold Start)           Line Regulation         0.5% (Max. 1.1 A Output Load)           Rated Voltage         100 to 240 VAC           Output         Output Voltage           Output Voltage         +55 VDC           Regulation         ±2% (Max.)           Output Power         60 W (Rated)           Ripple and Noise         200 mV (Max.)           Compatibility         802.3at/af Compliant           Data         10/100/1000 Mbps Ethernet           Protection         Yes (With Auto-recovery)           Short Circuit Protection         Yes (With Auto-recovery)           Over Current 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         3,004 Mm (Max., Operating)           Safety         Dielectric Strength         3,000 VAC (Max. 10 mA, 1 minute)           Ground Resistance         10.1 Ω (Max. at 25 A)     <	Rated Voltage	100 to 240 VAC	
Variation Frequency         47 to 63 Hz           Input Current         1.5 A (Max. at 115 VAC Full Load)           Efficiency         85% (Min. at 115 to 230 VAC Full Load)           Inrush Current         60 A (Max. at 115 VAC Cold Start)           60 A (Max. at 230 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 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         Yes (With Auto-recovery)           Over Current Protection         Yes (With 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         3,004 Mm (Max., Operating)           Afety         3,004 Wm (Max. 10 mm, 1 minute)           Ground Resistance         10 MΩ (M	Variation Voltage	90 to 264 VAC	
Input Current	Rated Frequency	50 to 60 Hz	
### 10.75 A (Max. at 230 VAC Full Load)  Efficiency	Variation Frequency	47 to 63 Hz	
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 Environmental Operating Temperature 0 °C to +40 °C Storage Temperature -20 °C to +70 °C Relative Humidity Altitude 3,048 m (Max., Operating, Noncondensing) 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  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  MTBE-	Input Current		
Line Regulation  Rated Voltage  Output  Output Voltage  Pegulation  Output Current  Output Power  Compatibility  Data  Protection  Short Circuit Protection  Short Circuit Protection  Coverage Voltage Protection  Environmental  Operating Temperature  Pose Temperature  Storage Temperature  Altitude  Safety  Dielectric Strength  Ground Resistance  Insulation Resistance  PCC Part 15 Class B, EN55022 Class B  EMS  EMS  EMS  Pose Voltage  ATBE-  Output Voltage  100 to 240 VAC  (Max. 1.1 A Output Load)  111 A (Rated); 1.2 A (Max.)  (Max.)  Output Power  60 W (Rated)  (Rated)  (Rated)  (Rated)  (Max.)  (Max.)  (Max.)  (Max.)  (Max.)  (With Auto-recovery)  Ves (With Auto-recovery)  Over Current Protection  Yes (With Auto-recovery)  Ves (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  Ground Resistance  0.1 Ω (Max. at 23 A)  Insulation Resistance  100 MΩ (Min., at 500 VDC, In-Out)  Touch Current  0.25 mA (Max.)  Safety Standards  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  MTBE-	Efficiency	85% (Min. at 115 to 230 VAC Full Load)	
Rated Voltage100 to 240 VACOutputOutput Voltage+55 VDCRegulation±2% (Max.)Output Current1.1 A (Rated); 1.2 A (Max.)Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalOperating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Inrush Current		
OutputOutput Voltage+55 VDCRegulation±2% (Max.)Output Current1.1 A (Rated); 1.2 A (Max.)Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityMTBF:200,000 hours (at 25°C); 105,000 hours	Line Regulation	0.5% (Max. 1.1 A Output Load)	
Output Voltage+55 VDCRegulation±2% (Max.)Output Current1.1 A (Rated); 1.2 A (Max.)Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityMTRF:200,000 hours (at 25°C); 105,000 hours	Rated Voltage	100 to 240 VAC	
Regulation±2% (Max.)Output Current1.1 A (Rated); 1.2 A (Max.)Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multilline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityAC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Output		
Output Current1.1 A (Rated); 1.2 A (Max.)Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature20 °C to +70 °CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityMTBF:MTBF:200,000 hours (at 25°C); 105,000 hours	Output Voltage	+55 VDC	
Output Power60 W (Rated)Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature0 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityMTRE-200,000 hours (at 25°C); 105,000 hours	Regulation	±2% (Max.)	
Ripple and Noise200 mV (Max.)Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionYes (With Auto-recovery)Short Circuit ProtectionYes (Max. 1.2 A Output, Auto-recovery)Over Current ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalOperating TemperatureOperating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityAC Port: 2 kV L-PE, N-PE; 1 kV L-L	Output Current	1.1 A (Rated); 1.2 A (Max.)	
Compatibility802.3at/af CompliantData10/100/1000 Mbps EthernetProtectionYes (With Auto-recovery)Over Current ProtectionYes (With Auto-recovery)Overage Voltage ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalOperating Temperature0°C to +40°CStorage Temperature-20°C to +70°CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-EAC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityMTRE-200,000 hours (at 25°C); 105,000 hours	Output Power	60 W (Rated)	
Data10/100/1000 Mbps EthernetProtectionShort Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalOperating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliabilityAC Port: 2 kV L-PE, N-PE; 1 kV L-LMTRE:200,000 hours (at 25°C); 105,000 hours	Ripple and Noise	200 mV (Max.)	
ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Non-condensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Compatibility	802.3at/af Compliant	
Short Circuit ProtectionYes (With Auto-recovery)Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalOperating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Data	10/100/1000 Mbps Ethernet	
Over Current ProtectionYes (Max. 1.2 A Output, Auto-recovery)Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)Environmental0 °C to +40 °COperating Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Protection		
Overage Voltage ProtectionYes (Shut Down at 60 VDC Output)EnvironmentalYes (Shut Down at 60 VDC Output)Operating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Short Circuit Protection	Yes (With Auto-recovery)	
EnvironmentalOperating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)SafetyDielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePOE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Over Current Protection	Yes (Max. 1.2 A Output, Auto-recovery)	
Operating Temperature0 °C to +40 °CStorage Temperature-20 °C to +70 °CRelative Humidity95% (Max., Operating, Noncondensing)Altitude3,048 m (Max., Operating)Safety3,000 VAC (Max. 10 mA, 1 minute)Dielectric Strength3,000 VAC (Max. 10 mA, 1 minute)Ground Resistance0.1 Ω (Max. at 25 A)Insulation Resistance100 MΩ (Min., at 500 VDC, In-Out)Touch Current0.25 mA (Max.)Safety StandardsIEC60950, EN60950, CB EN 60950, FCC, CEEMCFCC Part 15 Class B, EN55022 Class BEMSIEC 61000-4-2/3/4/5/6/11SurgePoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-LReliability200,000 hours (at 25°C); 105,000 hours	Overage Voltage Protection	Yes (Shut Down at 60 VDC Output)	
Storage Temperature  -20 °C to +70 °C  95% (Max., Operating, Noncondensing)  Altitude  3,048 m (Max., Operating)  Safety  Dielectric Strength  Ground Resistance  10.1 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  MTRE-  200,000 hours (at 25°C); 105,000 hours			
Relative Humidity  95% (Max., Operating, Noncondensing)  3,048 m (Max., Operating)  Safety  Dielectric Strength  3,000 VAC (Max. 10 mA, 1 minute)  Ground Resistance  100 MΩ (Min., at 500 VDC, In-Out)  Touch Current  0.25 mA (Max.)  Safety Standards  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  MTRE-  200,000 hours (at 25°C); 105,000 hours	Operating Temperature	0 °C to +40 °C	
Relative Humidity       condensing)         Altitude       3,048 m (Max., Operating)         Safety       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       200,000 hours (at 25°C); 105,000 hours	Storage Temperature	-20 °C to +70 °C	
Safety         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           MTRE-         200,000 hours (at 25°C); 105,000 hours	Relative Humidity		
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         AC Port: 6 kV Shield-E, Multiline-E           AC Port: 2 kV L-PE, N-PE; 1 kV L-L           Reliability           MTRE-         200,000 hours (at 25°C); 105,000 hours	Altitude	3,048 m (Max., Operating)	
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         200,000 hours (at 25°C); 105,000 hours	Safety		
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         200,000 hours (at 25°C); 105,000 hours	Dielectric Strength	3,000 VAC (Max. 10 mA, 1 minute)	
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         200,000 hours (at 25°C); 105,000 hours	Ground Resistance	0.1 Ω (Max. at 25 A)	
IEC60950, EN60950, CB EN 60950, FCC, CE	Insulation Resistance	100 MΩ (Min., at 500 VDC, In-Out)	
CE	Touch Current	0.25 mA (Max.)	
EMS IEC 61000-4-2/3/4/5/6/11  Surge Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-L  Reliability  MTRE- 200,000 hours (at 25°C); 105,000 hours	Safety Standards		
Surge PoE Port: 6 kV Shield-E, Multiline-E AC Port: 2 kV L-PE, N-PE; 1 kV L-L  Reliability  MTRE- 200,000 hours (at 25°C); 105,000 hours	EMC	FCC Part 15 Class B, EN55022 Class B	
AC Port: 2 kV L-PE, N-PE; 1 kV L-L  Reliability  MTRE-  200,000 hours (at 25°C); 105,000 hours	EMS	IEC 61000-4-2/3/4/5/6/11	
MTRE· 200,000 hours (at 25°C); 105,000 hours	Surge	·	
MIBE.	Reliability		
	MTBF:		

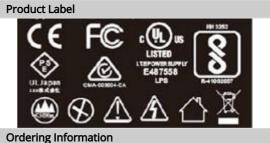


Mechanical	
Dimensions	193 x 85 x 41 mm
Weight	425 g
Input Power Receptacle	IEC 320/C14
Data	Unshielded RJ45, EIA 568A+568B
RJ-45 Power Pins	4/5 (+), 7/8(-) and 3/6(+), 1/2(-)
LEDs	POWER (Green = Power OK) ACTIVE (Green = 0.55 A Load OK, Blue = 1.1 A Load OK)

#### Diagram



193



Part Number: GE.PW-X300-00

High Power Gigabit PoE injector for X30 Series

Version: 08 Jan 2020

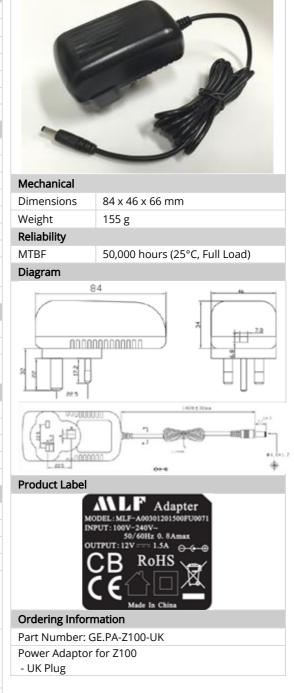
Anywhere Networks reserves the rights to change, modify, transfer or otherwise revise the publication and the product specification without notice. All scaling metrics outlined in this document are maximum supported values. The scale may vary depending on the deployment scenario and features enabled. Visit www.anywherenetworks.com or contact sales@anywherenetworks.com for more details.



## 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



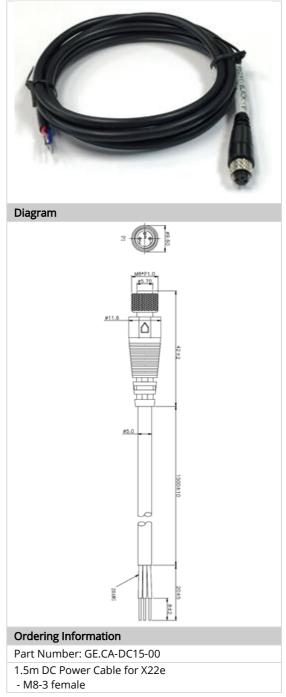
Version: 08 Jan 2020



# 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 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



Version: 08 Jan 2020



# 4-port Industrial High Power PoE Switch

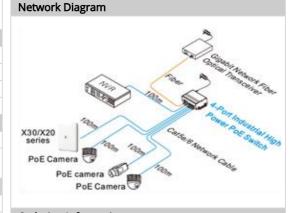
Unmanaged, 1st Port up to 60W

#### **Specifications**

Switch Processing Scheme  Downlink Ports  A × 10/100/10000BASE-T RJ45 (Auto-MDI/MDI-X)  I x 1000 Mbps SFP  Uplink Ports  1 x 10/100/1000BaseT  1 x Optical/Ethernet Gigabit Combo  IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3z, IEEE802.3x  Switching Capacity  Troughput  MAC Address  Memory Buffer  PoE Output Voltage  PoE Standard  PSE Type  Ist Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental  Operating Temperature  4-40 °C to +75 °C (PoE Switch)  Storage Temperature  4-40 °C to +85 °C (PoE Switch)  Relative Humidity  Lightning Protection  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)  Meight  1-30 g  Installation  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  Power Input Port  Input, (Redundant Power), 1  Grounding Terminal  Power Pin Assignment  1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)	PoE Switch	
Downlink Ports    MDI/MDI-X    1 x 1000 Mbps SFP   1 x 10/100/1000BaseT   1 x 0ptical/Ethernet Gigabit Combo   IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z   IEEE802.3x   IEEE802.3z   IEEE802.3x   I	Switch Processing Scheme	Store and Forward, Unmanaged
MDI/MDI-X)  1 x 1000 Mbps SFP  1 x 10/100/1000BaseT  1 x Optical/Ethernet Gigabit Combo  IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3ab, IEEE802.3z, IEEE802.3x  Switching Capacity  17.5 Gbps  Throughput  10.4 Mbps  Memory Buffer  1 Mbit  MAC Address  PoE Port  PoE Output Voltage  44-57 VDC  PoE Standard  PSE Type  End-span  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  Relative Humidity  5 to 95% (Non-condensing)  Lightning Protection  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)  Meight  163 x 46 x 110 mm  Weight  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  LED  Power Input Port  Input, (Redundant Power), 1 Grounding Terminal	Downlink Ports	4 × 10/100/10000BASE-T RJ45 (Auto-
Uplink Ports  1 x 10/100/1000BaseT 1 x Optical/Ethernet Gigabit Combo  Network Standard  IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3ab, IEEE802.3z  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  PSE Type  End-span  1st Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental  Operating Temperature  Storage Temperature  40 °C to +85 °C (PoE Switch)  Storage Temperature  Relative Humidity  5 to 95% (Non-condensing)  Lightning Protection  Compliance  Certification Compliance  ESD  6 kV, Execute IEC-61000-4-5  Compliance  Certification Compliance  FCC, CE, RCM, ROHS, WEEE  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  Casing Material  Aluminum  Casing Color  Cool Grey  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	DOWNINK FORES	MDI/MDI-X)
Network Standard  Network Standard  Network Standard  IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3ab, IEEE802.3x  Switching Capacity  Throughput  10.4 Mbps  Memory Buffer  NAC Address  Report  Poe Output Voltage  Poe Standard  Poe Fort  Poe Output Voltage  Poe Fort  Poe Ower  Poe Power  Poe Namiona 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  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)  Neight  163 x 46 x 110 mm  Weight  530 g  Installation  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1  Grounding Terminal		1 x 1000 Mbps SFP
Network Standard  IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3ac  Switching Capacity  Throughput  10.4 Mbps  Memory Buffer  1 Mbit  MAC Address  8K  POE POrt  POE Output Voltage  POE Standard  PSE Type  Intervention  1st Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental  Operating Temperature  Storage Temperature  Au° C to +75 °C (PoE Switch)  Relative Humidity  S to 95% (Non-condensing)  Lightning Protection  Compliance  Certification Compliance  ESD  6 kV Contact Discharge, 8 kV Air Discharge, Execute IEC-61000-4-2  Mechanical  Dimensions (W×H×D)  Meight  163 x 46 x 110 mm  Weight  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC  Input, (Redundant Power), 1  Grounding Terminal	Uplink Ports	
Network Standard  IEEE802.3z, IEEE802.3x  Switching Capacity  Throughput  10.4 Mbps  Memory Buffer  1 Mbit  MAC Address  8K  POE Port  POE Output Voltage  44-57 VDC  POE Standard  PSE Type  End-span  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  ESD  6 kV Contact Discharge, 8 kV Air Discharge, Execute IEC-61000-4-2  Mechanical  Dimensions (W×H×D)  Meight  530 g  Installation  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		
Throughput  Memory Buffer  1 Mbit  MAC Address  8K  PoE Port  PoE Output Voltage  PoE Standard  PSE Type  End-span  1st Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental  Operating Temperature  Storage Temperature  -40 °C to +75 °C (PoE Switch)  Relative Humidity  5 to 95% (Non-condensing)  Lightning Protection  Compliance  Certification Compliance  ESD  6 kV Contact Discharge, 8 kV Air Discharge, Execute IEC-61000-4-2  Mechanical  Dimensions (W×H×D)  Meight  Installation  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Conput, (Redundant Power), 1  Grounding Terminal	Network Standard	
Memory Buffer  MAC Address  POE Port  PoE Output Voltage  PoE Standard  PSE Type  End-span  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  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  Installation  DIN Rail, Desktop and Wall  Casing Design  Casing Material  Aluminum  Casing Color  Cool Grey  LED  Power Input Port  Input, (Redundant Power), 1 Grounding Terminal	Switching Capacity	
MAC Address PoE Port PoE Output Voltage PoE Standard PSE Type End-span 1st Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental Operating Temperature Storage Temperature Relative Humidity Sto 95% (Non-condensing) Lightning Protection Compliance Certification Compliance ESD 6 kV Contact Discharge, 8 kV Air Discharge, Execute IEC-61000-4-2  Mechanical Dimensions (W×H×D) Meight 530 g Installation DIN Rail, Desktop and Wall Casing Design Casing Material Aluminum Casing Color LED Power Input Port  Numerical Solution; PoE Power (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.) For (PoE Switch) Solution); 2nd to 4th ports 30 W (Max.) For (PoE Switch) Solution); 2nd to 4th ports 30 W (Max.) For (PoE Switch) Solution); 2nd to 4th ports 30 W (Max.) For (PoE Switch) Solution; Solution); 2nd to 4th ports 30 W (Max.) For (PoE Switch) Solution; Solution Solution Solution Solution Solution Sol	Throughput	10.4 Mbps
PoE Port  PoE Output Voltage		1 Mbit
PoE Output Voltage PoE Standard PSE Type End-span 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 Casing Material Aluminum Casing Color LED Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	MAC Address	8K
PoE Standard PSE Type End-span  1st Port 60W (Max., Microsemi Solution); 2nd to 4th ports 30 W (Max.)  Environmental Operating Temperature Storage Temperature Relative Humidity Lightning Protection Compliance Certification Compliance ESD Foc. (CE, RCM, RoHS, WEEE ESD Foc. (CE	PoE Port	
PSE Type  Ind-span  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  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  Casing Material  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	PoE Output Voltage	44-57 VDC
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 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 Fan-less Wavy Metal Shell with Heat Dissipation Design Casing Design Casing Material Aluminum Casing Color Cool Grey Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	PoE Standard	802.3af/at
PoE Power  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  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  Casing Material  Aluminum  Casing Color  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	PSE Type	End-span
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 Casing Material Casing Color LED Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		1st Port 60W (Max., Microsemi
Environmental  Operating Temperature	PoE Power	Solution);
Operating Temperature 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 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 Casing Material Casing Color LED Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		2nd to 4th ports 30 W (Max.)
Storage Temperature Relative Humidity Sto 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 Casing Material Casing Color LED Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		
Relative Humidity  Lightning Protection  6 kV, Execute IEC-61000-4-5  Compliance  Certification Compliance  FCC, CE, RCM, RoHS, WEEE  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  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Operating Temperature	-40 °C to +75 °C (PoE Switch)
Lightning Protection  Compliance  Certification Compliance  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  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC  Input, (Redundant Power), 1  Grounding Terminal	Storage Temperature	-40 °C to +85 °C (PoE Switch)
Compliance Certification Compliance 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  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Relative Humidity	5 to 95% (Non-condensing)
Certification Compliance  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  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Lightning Protection	6 kV, Execute IEC-61000-4-5
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  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Compliance	
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  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Certification Compliance	FCC, CE, RCM, RoHS, WEEE
Mechanical  Dimensions (W×H×D)  Meight  Discharge, Execute IEC-61000-4-2  Mechanical  Dimensions (W×H×D)  Meight  Discharge, Execute IEC-61000-4-2  Mechanical  Dimensions (W×H×D)  Discharge, Execute IEC-61000-4-2  Mechanical  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Aluminum  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1  Grounding Terminal	FSD	
Dimensions (W×H×D)  Weight  530 g  Installation  DIN Rail, Desktop and Wall  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		Discharge, Execute IEC-61000-4-2
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 Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		
Installation  DIN Rail, Desktop and Wall  Fan-less Wavy Metal Shell with Heat Dissipation Design  Casing Material  Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal		
Casing Design  Fan-less Wavy Metal Shell with Heat Dissipation Design  Aluminum  Casing Color  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Weight	
Casing Design  Dissipation Design  Aluminum  Casing Color  Cool Grey  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1  Grounding Terminal	Installation	·
Casing Color  LED  Power Input Status, Ethernet Link & Speed  Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1  Grounding Terminal	Casing Design	,
Power Input Status, Ethernet Link & Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Casing Material	Aluminum
Speed Spin Green Terminal, 2 Groups DC Input, (Redundant Power), 1 Grounding Terminal	Casing Color	Cool Grey
Power Input Port Input, (Redundant Power), 1 Grounding Terminal	LED	· ·
Power Pin Assignment 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)	Power Input Port	Input, (Redundant Power), 1
	Power Pin Assignment	1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)

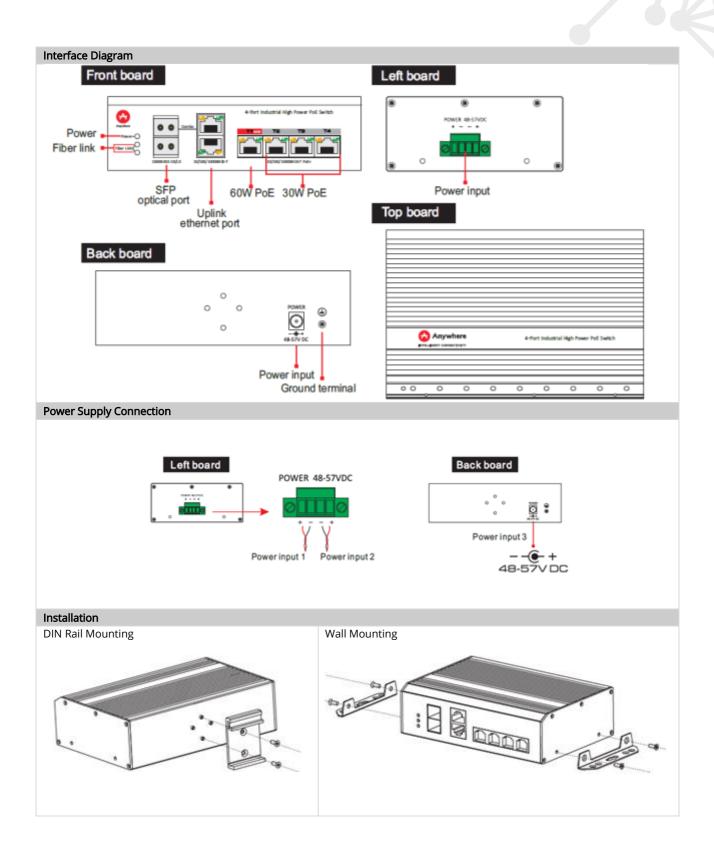


Power	
Power Input	Redundant Power Input, Power
	Hot Backup
	48 to 57 VDC
Input Voltage	56+ VDC for X33
Range	55+ VDC for X32/ X32e
	54+ VDC for X20/ X22e
Power Consumption	6 W (Max.)



# 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







# 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	00 to 264 VAC
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)

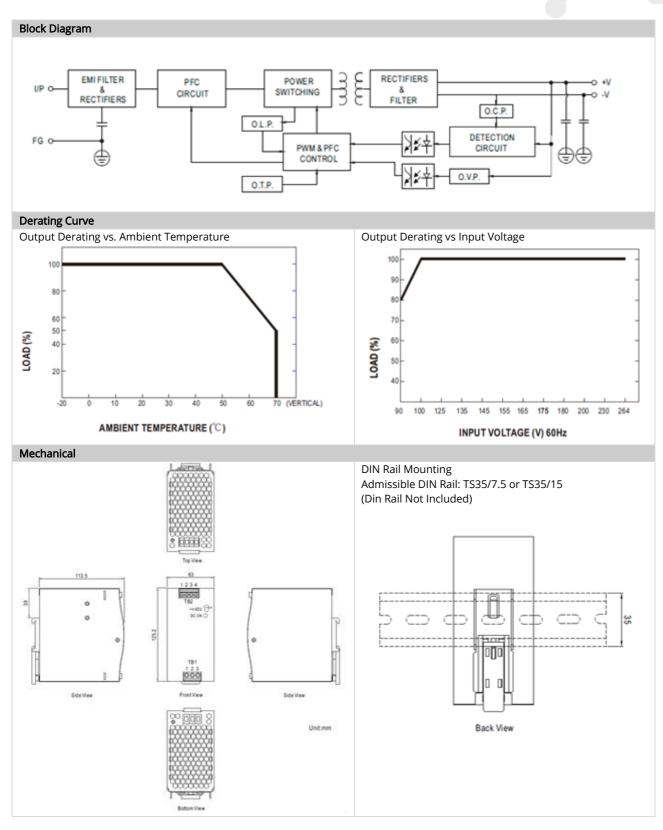


Safety & EMC	
Safety Standards	UL508, TUV EN60950-1; EN60204-1
Withstand	I/P to O/P: 3 KVAC
Voltage	I/P to FG: 2 KVAC O/P to FG: 0.5 KVAC
Isolation	I/P to O/P, I/P to FG, O/P to FG >
Resistance	100M Ohms at 500 VDC / 25°C/ 70% RH
EMC Emission	EN 55032 (CISPR32)
	EN 61204-3 Class B EN 61000-3-2, 3
EMC	EN 61000-4-2, 3 ,4 ,5 ,6, 8, 11
Immunity	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	40 mm (Top); 20 mm (Bottom),
Clearances	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







# 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)

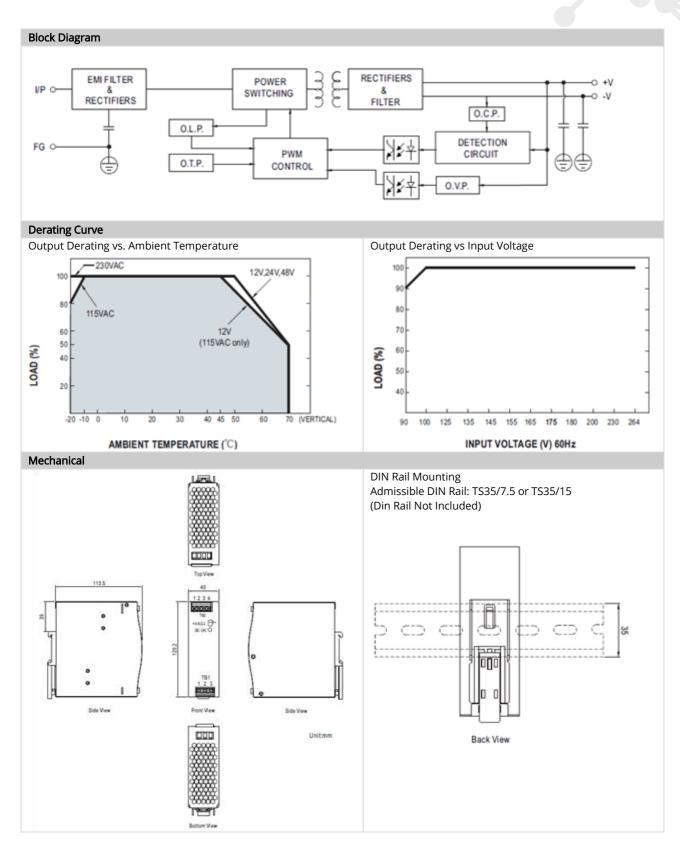


	And the Control of th	
Safety & EMC		
Safety Standards	UL508, TUV EN60950-1; EN60204-1	
Withstand	I/P to O/P: 3 KVAC	
Voltage	I/P to FG: 2 KVAC	
	O/P to FG: 0.5 KVAC	
Isolation	I/P to O/P, I/P to FG, O/P to FG >	
Resistance	100M Ohms at 500 VDC / 25°C/	
	70% RH	
EMC Emission	EN 55032 (CISPR32)	
	EN 61204-3 Class B	
EMC	EN 61000-3-2, 3 EN 61000-4-2, 3 ,4 ,5 ,6, 8, 11	
Immunity	EN 55024	
illinianity	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	40 mm (Top); 20 mm (Bottom),	
Clearances	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







# 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 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°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)



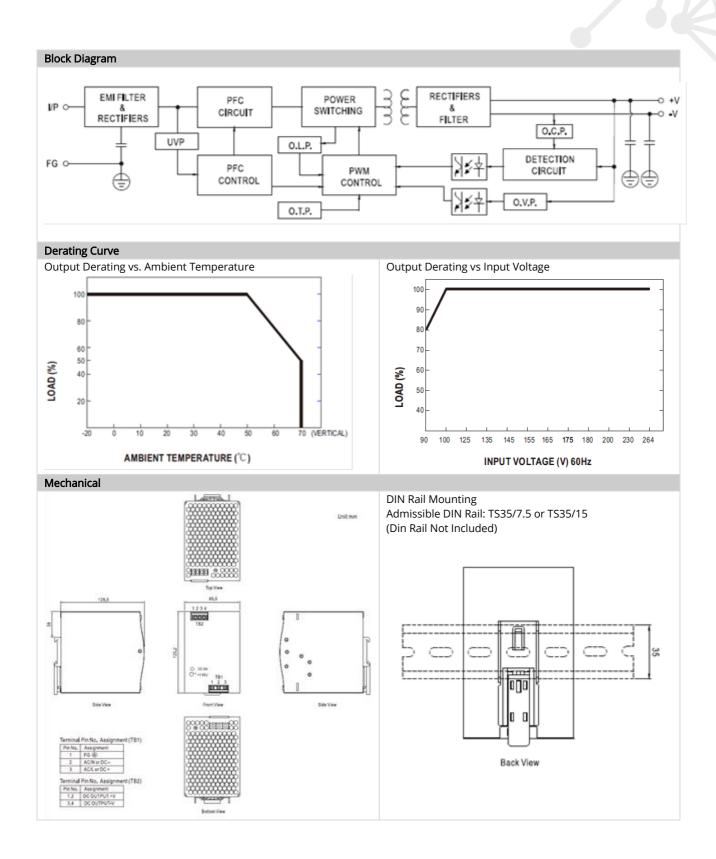
Safety & EMC		
Safety Standards	UL508, TUV EN60950-1; EAC TP TC 004; BSMI CNS 14336-1 Approved; EN 60204-1	
Withstand Voltage	I/P to O/P: 3 kV AC I/P to FG: 2 kV AC O/P to FG: 0.5 kV AC	
Isolation Resistance	I/P to O/P, I/P to FG, O/P to FG > 100M Ohms at 500 VDC / 25°C/ 70% RH	
EMC Emission	EN 55032 (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°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

(Model No.: NDR-480-48) - 480W, DIN Rail Mounting

Power Adaptor for Industrial PoE Switch





Version: 08 Aug 2020



# 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)
	10 ms (70% Load)
Input	
Voltage Range	16.8 to 33.6 VDC (Continuous)
ECC. :	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
Over Temperature	Voltage, Re-power On to Recover Shut Down O/P Voltage, Re-power On
Over remperature	to Recover
Under Voltage Lockout	24Vin: Power ON ≥16.8V, OFF ≤16.5V
Environmental	
Temperature	-40 to +70°C (Operating) -40 to +85°C (Storage)
Humidity	5% to 95% Non-condensing (Operating) 5% to 95% (Storage)
Temperature Coefficient	±0.03%/ °C (0 to 55°C)
Vibration	
Vibration	10 ~ 500 Hz, 5G 10 Min./ Cycle, 60 min. Each Along X, Y, Z Axes (Component) IEC61373 (Mounting)



Safety & EMC		
Safety	IEC 62328-1; EAC TP TC 004;	
Standards	AS/NZS 62368.1; UL508	
Withstand	I/P to O/P: 4 KVAC	
Voltage	I/P to FG: 2.5 KVAC	
	O/P to FG: 0.71 KVAC	
Isolation	I/P to O/P, I/P to FG, O/P to FG >	
Resistance	100M Ohms at 500 VDC / 25°C/	
	70% RH	
EMC Emission	EN 55032 Class B	
	EN 61000-3-3	
EMC	EN 61000-4-2, 3 ,4 ,5 ,6, 8	
Immunity		
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°C)	
Dimensions	40.0 × 125.2 × 113.5 mm	
Installation	40 mm (Top); 20 mm (Bottom),	
Clearances	5 mm (Both Sides), 15 mm (Heat	
	Source)	
Weight	760 g (Gross)	
Certification		
CE CB III		

# 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



