

Quick Installation Guide

48GE+2SFP Ethernet Switch
TEG1050F

1 Device installation

1.1 Preparation for installation

- Rack mounting: ESD bracelet (or ESD gloves), screwdriver, 4 screws (suitable for securing the switch to the rack).
- Wall mounting: ESD bracelet (or ESD gloves), marker, hammer, drill, rubber hammer, screwdriver, 4 expansion bolts (M5*40 mm), 4 screws (PA5*25 mm, head diameter: 10 mm).
- Desktop mounting: ESD bracelet (or ESD gloves).

1.2 Installation

Rack mounting (to a standard 19-inch rack)

- Ensure that the rack is stable and level, and is properly grounded.
- Fix the two L-shaped brackets to both sides of the switch with the included screws.



Step 3 Choose a proper height and fix the L-shaped brackets to the rack with screws (self-prepared). Ensure that the switch is stable on the rack.



Specifications

Model	TEG1050F	English
Port	10/100/1000 Mbps RJ45 ports 48 2 ports SFP 1000 Mbps	48 2 ports SFP independent
Switching mode	Store-and-forward	Store-and-forward
Performance	MAC address table learning MAC address table 16K	Auto aging, auto learning 16K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Input voltage	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Lighting protection	RJ45 port Power supply	Common mode 6kV Differential mode 4kV
Operating environment	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing
Storage environment	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing
Data transmission rate	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Transmission media	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF
Network standards	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

- Package contents**
- Switch x 1
 - L-shaped bracket x 2
 - Screw (KJM3*8) mm x 8
 - Quick installation guide x 1
 - Power cord x 1

This guide instructs how to install and connect the device. For details, please visit www.tendacn.com

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Especificações

Modelo	TEG1050F	Português
Porta	Porta RJ45 10/100/1000 Mbps 48 Porta SFP 1000 Mbps 2	48 portas SFP independentes
Desempenho	Modo de comutação: Armazenamento e encaminhamento MAC Modo de transmissão MAC: 16K	Operação store-and-forward Endereço de tabela de encaminhamento MAC automático Modo de transmissão MAC: 16K
Dimensões (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Tensão de entrada	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Proteção contra raios	Porta RJ45 Modo comum 6kV Modo diferencial 4kV	Modo comum 6kV Modo diferencial 4kV
Proteção contra surtos	Porta de administração	Modo diferencial 4kV
Estorno de funcionamento	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação
Estorno de armazenamento	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação
Taxa de transmissão de dados	Ethernet: 10 Mbps (meio duplex) / 20 Mbps (pleno duplex) SFP Ethernet: 100 Mbps (meio duplex) / 200 Mbps (pleno duplex) Optical Ethernet: 2000 Mbps (pleno duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Meios de transmissão	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF
Padões de rede	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

Especificaciones

Modelo	TEG1050F	Español
Puerto	Puerto RJ45 10/100/1000 Mbps 48 Puerto SFP 1000 Mbps 2	48 puertos SFP independientes
Modo de comutación	Armazenamento e encaminhamento MAC	Operación store-and-forward
Modo de transmisión MAC	16K	Operación store-and-forward
Tabla de direcciones MAC	16K	Operación store-and-forward
Dimensiones (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Tensión de entrada	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Protección contra raios	Porta RJ45 Modo común 6kV Modo diferencial 4kV	Modo común 6kV Modo diferencial 4kV
Protección contra surtos	Porta de administración	Modo diferencial 4kV
Entorno de funcionamiento	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação
Entorno de armazenamento	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação
Velocidad de transmisión de datos	Ethernet: 10 Mbps (meio duplex) / 20 Mbps (pleno duplex) SFP Ethernet: 100 Mbps (meio duplex) / 200 Mbps (pleno duplex) Optical Ethernet: 2000 Mbps (pleno duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Medios de transmisión	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF
Estándares de red	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

Özellikler

Model	TEG1050F	Türkçe
Port	10/100/1000 Mbps RJ45 ports 48 2 ports SFP 1000 Mbps	48 bağımsız SFP portu
Performance	MAC address table learning MAC address table 16K	Auto aging, auto learning 16K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Input voltage	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Lightning protection	RJ45 port Power supply	Common mode 6kV Differential mode 4kV
Operating environment	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing
Storage environment	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing
Data transmission rate	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Transmission media	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF	Ethernet: CAT5 UTP/STP kablolu kablo Fast Ethernet: CAT5 UTP/STP kablolu kablo SFP Ethernet: CAT5 UTP/STP kablolu kablo Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF
Network standards	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

المواصفات

Model	TEG1050F	العربية
Port	10/100/1000 Mbps RJ45 ports 48 2 ports SFP 1000 Mbps	48 منفذ SFP مستقل
Performance	MAC address table learning MAC address table 16K	Auto aging, auto learning 16K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Input voltage	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Lightning protection	RJ45 port Power supply	Common mode 6kV Differential mode 4kV
Operating environment	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing
Storage environment	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing
Data transmission rate	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Transmission media	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF	Ethernet: CAT5 UTP/STP كابل Fast Ethernet: CAT5 UTP/STP كابل SFP Ethernet: CAT5 UTP/STP كابل Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF
Network standards	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

Wall mounting

- Do NOT install the switch with the switch openings facing down, otherwise, there will be potential water hazards.
- The switch only can be installed on concrete or non-flammable wall.



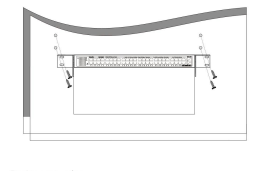
Step 1 Rotate the two L-shaped brackets by 90 degrees and fix them to both sides of the switch with the included screws.

Step 2 Place the switch horizontally onto the wall with its RJ45 ports facing upward, and then mark the screw holes with the marker.

Step 3 Drill holes in the marked positions, and then hammer the expansion bolts (self-prepared, M5*40 mm) into the holes.

Step 4 Press the screws (self-prepared, PA5*25 mm, head diameter: 10 mm) through the holes of the two L-shaped brackets, and secure the screws into the expansion bolts with a screwdriver. Ensure that the switch is installed firmly with its RJ45 ports facing upward.

Desktop mounting



Paste the four footpads to the corresponding four recesses on the bottom of the switch. Then turn the switch upside down, and place it on a flat enough, clean, stable and fire-resistant desktop.

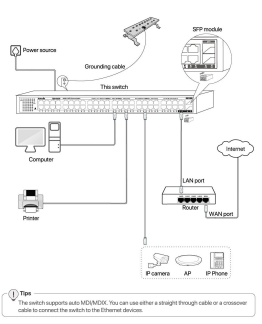


Спецификации

Model	TEG1050F	Русский
Port	10/100/1000 Mbps RJ45 ports 48 2 ports SFP 1000 Mbps	48 2 независимых SFP порта
Performance	MAC address table learning MAC address table 16K	Своевременное обновление таблицы MAC-адресов 16K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm	440 мм x 240 мм x 44 мм
Input voltage	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Lightning protection	RJ45 port Power supply	Обычный режим 6kV Дифференциальный режим 4kV
Operating environment	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing	Температура: 0°C~40°C Влажность: 10~90% RH, неконденсирующая
Storage environment	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing	Температура: -40°C~70°C Влажность: 5~95% RH, неконденсирующая
Data transmission rate	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)	Ethernet: 10 Мбит/с (полудуплекс) / 20 Мбит/с (полудуплекс) SFP Ethernet: 100 Мбит/с (полудуплекс) / 200 Мбит/с (полудуплекс) Optical Ethernet: 2000 Мбит/с (полудуплекс)
Transmission media	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF	Ethernet: Кабель CAT5 UTP/STP или лучше Fast Ethernet: Кабель CAT5 UTP/STP или лучше SFP Ethernet: Кабель CAT5 UTP/STP или лучше Optical Ethernet: OM3 OM4 (Пластик) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF или SMF
Network standards	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

2 Device connection

The typical network topology of this switch is as shown below.



Spezifikationen

Model	TEG1050F	Deutsch
Port	10/100/1000 Mbps RJ45 ports 48 2 ports SFP 1000 Mbps	48 2 unabhängige SFP-Ports
Performance	MAC address table learning MAC address table 16K	Speicher und Weiterleitung 16K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Input voltage	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Lightning protection	RJ45 port Power supply	Normaler Modus 6kV Differenzieller Modus 4kV
Operating environment	Temperature: 0°C~40°C Humidity: 10%~90% RH, non-condensing	Temperatur: 0°C~40°C Luftfeuchtigkeit: 10%~90% RH, nicht kondensierend
Storage environment	Temperature: -40°C~70°C Humidity: 5%~95% RH, non-condensing	Temperatur: -40°C~70°C Luftfeuchtigkeit: 5%~95% RH, nicht kondensierend
Data transmission rate	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Transmission media	Ethernet: CAT5 UTP/STP cable Fast Ethernet: CAT5 UTP/STP cable SFP Ethernet: CAT5 UTP/STP cable Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF or SMF	Ethernet: Cat5 UTP/STP-Kabel oder höher Fast Ethernet: Cat5 UTP/STP-Kabel oder höher Optical Ethernet: Cat5 UTP/STP-Kabel oder höher Optical Ethernet: OM3 OM4 (Plastic) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF oder SMF
Network standards	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

After connection, you can check whether the switch is connected properly or change its operating mode according to the following table.

LED indicator	Description
Power	<p>Stable: The switch is powered on properly. Off: The switch is not powered on or not connected on properly.</p>
Link/Act	<p>Stable on: The port is connected to a device, but no data is being transmitted over the port. Blinking: The port is connected to a device and data is being transmitted over the port. Off: The port is not connected or is not connected properly. A green LED indicates that the negotiation rate of the port is 100Mbps, while an orange LED indicates a negotiation rate of 10Mbps.</p>
VLAN	<p>Stable on: VLAN mode is turned on. Ports 1 to 48 cannot communicate with each other, but can communicate with ports 47 to 50. Off: LAN mode is turned on. The switch works as an unmanaged network switch, and all ports can communicate with each other.</p>
Mode	<p>VLAN mode: VLAN mode is turned on. LAN mode: LAN mode is turned on.</p>

Especificações

Modelo	TEG1050F	Português
Porta	Porta RJ45 10/100/1000 Mbps 48 Porta SFP 1000 Mbps 2	48 portas SFP independentes
Desempenho	Modo de comutação: Armazenamento e encaminhamento MAC Modo de transmissão MAC: 16K	Operação store-and-forward Endereço de tabela de encaminhamento MAC automático Modo de transmissão MAC: 16K
Dimensões (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Tensão de entrada	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Proteção contra raios	Porta RJ45 Modo comum 6kV Modo diferencial 4kV	Modo comum 6kV Modo diferencial 4kV
Proteção contra surtos	Porta de administração	Modo diferencial 4kV
Estorno de funcionamento	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação
Estorno de armazenamento	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação
Taxa de transmissão de dados	Ethernet: 10 Mbps (meio duplex) / 20 Mbps (pleno duplex) SFP Ethernet: 100 Mbps (meio duplex) / 200 Mbps (pleno duplex) Optical Ethernet: 2000 Mbps (pleno duplex)	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) SFP Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Optical Ethernet: 2000 Mbps (full duplex)
Meios de transmissão	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF	Ethernet: Cabo CAT5 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: Cabo CAT5 UTP/STP ou superior Optical Ethernet: OM3 OM4 (Plástico) / OM3 OM4 (Bend-insensitive) / OM3 OM4 (Ribbon) / OM3 OM4 (LX) MMF ou SMF
Padões de rede	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u	IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3u

Especificaciones

Modelo	TEG1050F	Español
Puerto	Puerto RJ45 10/100/1000 Mbps 48 Puerto SFP 1000 Mbps 2	48 puertos SFP independientes
Modo de comutación	Armazenamento e encaminhamento MAC	Operación store-and-forward
Modo de transmisión MAC	16K	Operación store-and-forward
Tabla de direcciones MAC	16K	Operación store-and-forward
Dimensiones (L x W x H)	440 mm x 240 mm x 44 mm	440 mm x 240 mm x 44 mm
Tensión de entrada	100~240V AC, 50/60Hz, 1.5A	100~240V AC, 50/60Hz, 1.5A
Protección contra raios	Porta RJ45 Modo común 6kV Modo diferencial 4kV	Modo común 6kV Modo diferencial 4kV
Protección contra surtos	Porta de administración	Modo diferencial 4kV
Entorno de funcionamiento	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação	Temperatura: 0°C~40°C Humidade: 10%~90% RH, sem condensação
Entorno de armazenamento	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação	Temperatura: -40°C~70°C Humidade: 5%~95% RH, sem condensação
Velocidad de transmisión de datos	Ethernet:	