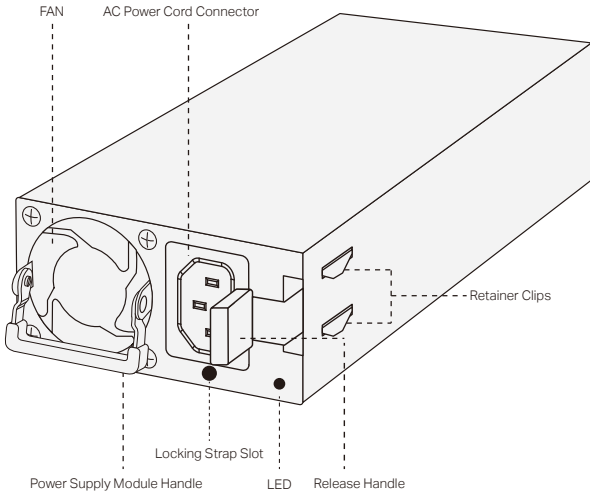


Installation Guide

Power Supply Module

1 Appearance

The PSM550-AC is an AC-input power supply module. It can convert the input voltage to 12 V with the maximum output power of 550 W.



7100001516 REV1.2.0 © 2025 TP-Link

4 Installation

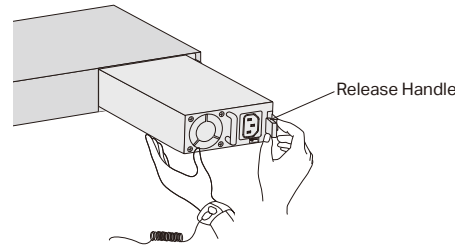
Safety Information

To avoid damage to the power supply module and the equipment and bodily injury, the product can only be used by instructed persons.

Please observe the following notes:

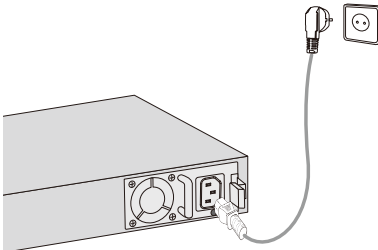
- When you install and remove the power supply module, please wear an ESD-preventive wrist strap, and make sure that it has good skin contact and is well grounded.
- Before installing the power supply module, make sure that the voltage of external power supply system is the same with the voltage marked in the power supply module, and the output voltage of the power supply module is the same with the required voltage of the powered devices in order to prevent damaging the power supply module or the powered devices.
- Do not touch any exposed wires or terminals to avoid bodily injury.
- Do not place the power module in a humid place or let the liquid into the power supply module.
- If there is a failure inside the module, please contact service personnel, instead of opening the housing of the module.
- The equipment must not be used in locations where children are likely to be present.
- Plug the product into the wall outlets with earthing connection through the power supply cord.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

Install the Power Supply Module



- Wear an ESD-preventive wrist strap, and make sure that it has good skin contact and is well grounded.
- Press the Release Handle at the right side of the power supply module inward with one hand, and hold the bottom of the module using your other hand. Gently push the module in along the slot guide rail.
- Release the Release Handle to fix the power supply module in place.

Connect the Power Cord and Connect to the Ground



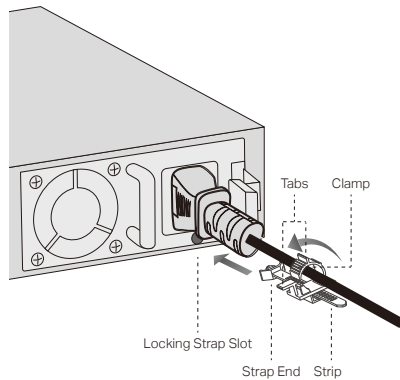
- Plug the female connector of the provided power cord into the power socket of the device, and the male connector into a power outlet. Meanwhile, keep it connected to the ground via the power supply.
- Confirm that the power supply LED is green.

2 LED and Feature Explanation

LED Status	Power Supply Module Status
Green On	Power supply module is powered and running well.
Off	All of the power supply modules are powered off.
Green Flashing (1 time per second)	Power supply module is powered, but only 12Vsb (the stand-by power supply) is turned on and 12V main is turned off.
Amber On	The power supply module is not powered while other modules are; Power supply module output is cut off due to abnormal events (output over-voltage protection/output over-current protection/output over-temperature protection/fan failure).
Amber Flashing	Abnormal alarm events (high temperature/high power/high current/low fan rotation speed) occur.
Green Flashing (2 times per second)	Firmware upgrading.

Feature	Description
Protection Function	Includes overvoltage, undervoltage, short circuit, overcurrent, and overheating protection.
Hot Swappable	The power supply module can be plugged out or plugged in without shutting down the switch.

(Optional) Install the Locking Strap



The power supply module is designed with a locking strap slot. If you need to secure the power cable with the included locking strap, please follow the steps:

- Wear an ESD-preventive wrist strap, and make sure that it has good skin contact and is well grounded.
- Remove the instruction label on the locking strap slot.
- Fix the strap in the power cord retainer into the slot near the power supply module, to hold the clamp in place.
- Slide the clamp around the AC power cord and press the tabs on the clamp towards each other to secure the AC power cord.
- Adjust the distance of the locking strap using clips to ensure the cable is securely fastened.

When the power module reverts to the protected state, its recovery features are as follows.

Protection Function	Protective Action	Recovery Characteristics
Output over-voltage protection	Power supply module locked and out-off supply	The power supply module can't recover automatically. It recovers only after the AC input is cut off.
Output short circuit protection	Power supply module locked and out-off supply	The power supply module can't recover automatically. It recovers only after the AC input is cut off.
Output over-current protection	Power supply module locked and out-off supply	The power supply module can't recover automatically. It recovers only after the AC input is cut off.
Output over-temperature protection	Power supply module locked and out-off supply	The power supply module can recover automatically when the fault is cleared.

Note:

When the power supply module is locked or auto-retry continually, you can try the following steps to restore the device.

- Disconnect the power cord from the external power supply system.
- Disconnect the power cord from the power supply module.
- Remove the power supply module from the device.
- Insert the power supply module again.
- Connect the power cord to the power supply module again.
- Connect the other end of the power cord to the external supply system.

Remove the Power Supply Module

If you need to remove the power supply module, please follow the steps:

- Turn off the power at its source.
- Wear an ESD-preventive wrist strap, and make sure that it has good skin contact and is well grounded.
- Remove the power cord from the external power supply system and the power module.
- Press the Release Handle at the right side of the power supply module inward with one hand, and slide the power supply out using your other hand.

Caution:

When installing or removing a power supply module, pay attention to the following points:

- Make sure that the power supply module is set correctly in the operation of installation.
- Do not force the power supply module into the slot. If resistance is encountered or positions of the power supply module appear larger during installation, you must first remove the module and then reinstall the module.
- If the Retainer Clips cannot spring up naturally and the power module is blocked, it may be due to the power supply module is not installed properly. Please check carefully.
- To better protect the power supply module during removal, it is recommended that you package it in an antistatic bag.

For technical support, replacement services, user guides, and more, please visit <https://support.omadanetworks.com/>, or simply scan the QR code.



3 Specification

	PSM550-AC
Power Input 電源輸入	100 V~240 V~ 50/60 Hz 7A
Output Voltage 輸出電壓	12V main: 12 VDC 12V 主電源: 12 VDC 12Vsb: 12 VDC
Output Current 輸出電流	12V main: 45 A (Maximum) 12V 主電源: 45 A (最大值) 12Vsb: 2.1A (Maximum) 12Vsb: 2.1A (最大值)
Output Power 輸出功率	550 W (Maximum) 550 W (最大值)
Altitude 高度	Sea level to 5000 m 海平面至 5000 公尺
Temperature 溫度	Operation: 0°C to 55°C (sea level to 3000 m) 0°C to 45°C (sea level to 5000 m) 操作: 0°C 至 55°C (海平面至 3000 公尺) 0°C 至 45°C (海平面至 5000 公尺) Storage: -40°C to 70°C 儲存: -40°C 至 70°C
Humidity 濕度	Operation: 5% to 90% RH Non-condensing 操作: 5% 至 90% RH 不凝結 Storage: 5% to 95% RH Non-condensing 儲存: 5% 至 95% RH 不凝結



FCC compliance information statement

Product Name: AC Power Supply Module
Model Number: PSM550-AC/PSM550-AC/PSM550-AC
TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Website: <https://www.tp-link.com/us/>
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
We, TP-Link Systems Inc., has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

EU Declaration of Conformity
TP-Link hereby declares that the power supply module is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863.
The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/cel/>.
UK Declaration of Conformity
TP-Link hereby declares that the power supply module is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.
The original UK declaration of conformity may be found at <https://www.tp-link.com/support/ukcal/>.

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not point or stare directly into the beam or into the optical port of the transceiver when it is operating, as this can injure your eyesight.

Продукт сертифіковано згідно з правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

Industry Canada Statement

CAN ICES-003 (A/NB-003A)



This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防熱。請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱。請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請勿私自拆開機殼或自行維修。如產品有故障請與原廠或代理商聯繫。

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

限用物質含有情況標示聲明書

	限用物質及其化學符號					
產品元件名稱	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr ⁶⁺	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應板	○	○	○	○	○	○
其他及其配件	-	○	○	○	○	○
備考1: "○"系指該項限用物質之百分比含量未超出百分比含量基準值。						
備考2: "-"系指該項限用物質為排除項目。						

Explanation of the symbols on the product label

產品標籤上符號的解釋

Note: The product label can be found at the bottom of the product.

Symbols may vary from products.

注意：產品標籤可在產品底部找到。符號可能因產品而異。

Symbol 符號	Explanation 說明
	Class II equipment 二級設備
	Class II equipment with functional earthing 具有接地功能的二級設備
	Alternating current 交流電
	Direct current DC 電壓
	Polarity of DC power connector 輸出端點的極性
	For indoor use only 僅供室內使用
	Dangerous voltage 危險電壓
	Caution, risk of electric shock 請注意，有觸電的危險
	Energy efficiency marking 能源效率標誌
	Protective earthing 保護接地
	Earth 接地
	Frame or chassis 框架或外殼
	Functional earthing 功能接地
	Caution, hot surface 請注意，表面過熱
	Caution 警告
	Operator's manual 操作手冊
	Stand-by 待機
	"ON"/"OFF" (push-push) "開啟" / "關閉" (按壓式)
	Fuse 保險絲
	Fuse is used in neutral N 保險絲用於中性線 N
	RECYCLING 回收 This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Users have the choice to give their product to a competent recycling organization or to the retailer when they buy new electrical or electronic equipment.
	這個產品帶有歐盟指令 2012/19/EU 中關於廢棄電氣電子設備 (WEEE) 的選擇性分類標誌。這意味著，該產品必須按照該指令處理，以便進行回收或拆解，從而最大限度地減少對環境的影響。 用戶可以選擇將產品交給有資格的回收機構，或在購買新的電器或電子設備時將其交給零售商進行回收。
	Caution, avoid listening at high volume levels for long periods 請小心，避免長時間以高音量收聽。
	Disconnection, all power plugs 斷線，所有電源插頭
	Switch of mini-gap construction 迷你間隙結構開關
	Switch of micro-gap / micro-disconnection construction (for other versions except US) 小間隙結構開關 (US 版本) 小間隙 / 小斷開結構的開關 (非 US 版)
	Switch without contact gap (Semiconductor switching device) 無接觸開關的開關 (半導體開關設備)