

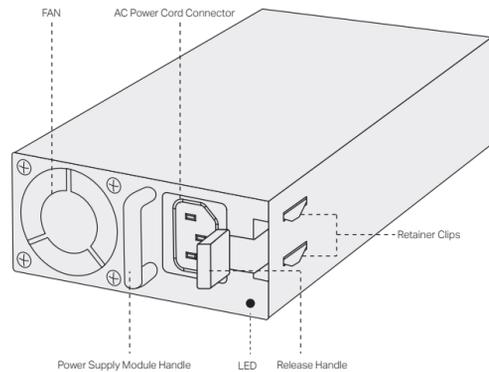


Installation Guide

Power Supply Module

1 Appearance

The PSM500-AC/PSM900-AC is an AC-input power supply module. It can convert the input voltage to 53.5 V with the maximum output power of 500 W/900 W.



2 LED and Feature Explanation

LED Status	Description
Green On	Power supply module is powered on and running well, and supplying power to the device. Or power supply module is powered on and in backup mode.
Green Flashing	Power supply module is powered on and running well, but not supplying power to the device.
Yellow Flashing	Power supply module is supplying power, but abnormal alarm events (high temperature/high power/high current/abnormal fan) occur.
Yellow On	Serious abnormal events occur and the power supply may not be supplying power. The circuit has faults, such as output over-voltage, output under-voltage, output over-current, output short circuit, or low input voltage.
Off	Power off or power supply fault.

Feature	Description
Protection Function	Includes overvoltage, undervoltage, short circuit, overcurrent, and overheating protection.
Redundant Backup	Supports dual power modules combining in parallel to implement 1+1 redundancy for uninterruptible power supply.
Hot Swappable	In the case of 1+1 redundant power supply system, the power supply module can be plugged out or plugged in without shutting down the switch.

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

Protection Function	Protective Action	Recovery Characteristics
Output over-voltage & under-voltage protection	Power supply module locked and cut-off supply	The power supply module can not recover automatically.
Output short circuit protection	Power supply module locked and cut-off supply	Power supply module reverts into the auto-retry mode. It can recover automatically when the fault is cleared.
Output over-current protection	Power supply module locked and cut-off supply	Power supply module reverts into the auto-retry mode. It 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.

1. Disconnect the power cord from the external power supply system.
2. Disconnect the power cord from the power supply module.
3. Remove the power supply module from the device.
4. Insert the power supply module again.
5. Connect the power cord to the power supply module again.
6. Connect the other end of the power cord to the external supply system.

3 Specification

	PSM500-AC	PSM900-AC
Power Input	100 V~240 V~ 50/60 Hz 8A	100-120V(include)~ 50/60Hz 12A (for locations using low voltage, see specifications for specific countries/regions) 120(not include)-240V~ 50/60Hz 10A (for other locations)
Output Voltage	53.5 VDC	53.5 VDC
Output Current	9.35 A (Maximum)	16.5 A (Maximum)
Output Power	500 W (Maximum)	900 W (Maximum)
Temperature	Operation : 0°C to 45°C (32 to 113°F) Storage: -40°C to 70°C (-40 to 158°F)	
Humidity	Operation : 10% to 90% RH Non-condensing Storage: 5% to 90% RH Non-condensing	
Altitude	Sea level to 3000 m	

FCC compliance information statement

Product Name: AC Power Supply Module
 Model Number: PSM500-AC/PSM900-AC
 TP-Link USA Corporation
 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 USA Corporation, 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.

Issue Date: 2023/08/7

EU Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/53/EU, 2011/65/EU and EU2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/ksa/>.

UK Declaration of Conformity

TP-Link hereby declares that the device 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/ukca/>.

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 щодо перероблення чинними законодавчими актами України.



Industry Canada Statement

CAN ICES-3 (A)/NMB-3(A)

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



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
- 請依照原裝電源供應器或只能按照本產品註明的電源類型使用本產品。
 - 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或溼布進行清潔。
 - 注意防燙，請勿將水或其他液體潑灑到本產品上。
 - 請依照說明書正確使用，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。
 - 請不要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。
- 此為專業資訊技術設備，予感在環境中使用時，可能會造成射頻干擾。在此種情況下，使用者會被要求採取某些適當的對策。
- 限用物質含有情況標示說明書

產品元件名稱	限用物質及其化學符號					
	Pb	Cd	Hg	Cr ⁶⁺	PBB	PBDE
PCB	○	○	○	○	○	○
外觀	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○

備考：「○」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。

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4 Installation

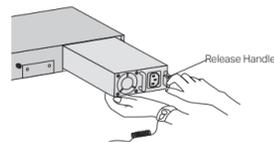
Safety Information

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.

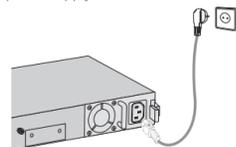
Install the Power Supply Module



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

Connect the Power Cord and Connect to the Ground

After the power supply module is installed on the device, please 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, it will connect to the ground via the power supply.



Remove the Power Supply Module

1. Wear an ESD-preventive wrist strap, and make sure that it has good skin contact and is well grounded.
2. Remove the power cord from the external power supply system and the power module.
3. Press the Release Handle of the module with one hand, and pull the Power Supply Module Handle using your other hand, until it completely comes out of the chassis.

Note:

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 use too much force in the installation. 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.
- In order to better protect the power supply module during removal, it is recommended that you package it in an antistatic bag.

To ask questions, find answers, and communicate with TP-Link users or engineers, please visit <https://community.tp-link.com> to join TP-Link Community.

For technical support, the user guide and other information, please visit <https://www.tp-link.com/support>, or simply scan the QR code.



Explanation of the symbols on the product label

symbols may vary from products

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
	Fuse is used in neutral N
	RECYCLING 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. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro-gap /micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)