

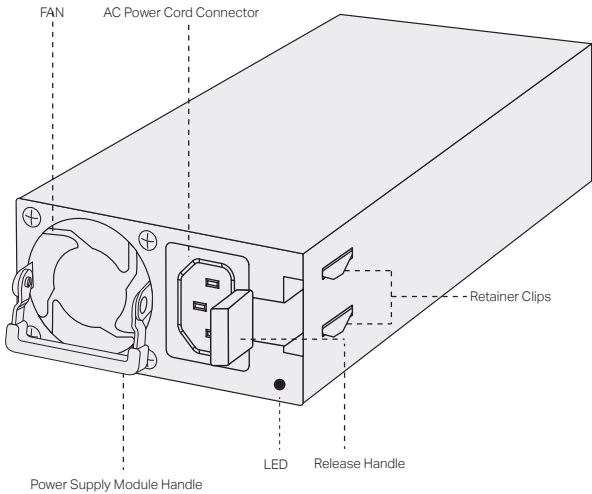


Installation Guide

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.



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.

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 cut-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 cut-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 cut-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 cut-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.

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.

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.

3 Specification

	PSM550-AC
Power Input	100 V~240 V~ 50/60 Hz 7A
Output Voltage	12V main: 12 VDC
	12Vsb: 12 VDC
Output Current	12V main: 45 A (Maximum)
	12Vsb: 2.1A (Maximum)
Temperature	Operation: 0°C to 55°C (sea level to 3000 m)
	0°C to 45°C (sea level to 5000 m)
Humidity	Storage: -40°C to 70°C
	Operation: 5% to 90% RH Non-condensing
Output Power	Storage: 5% to 95% RH Non-condensing
	550 W (Maximum)
Altitude	Sea level to 5000 m

FCC compliance information statement

Product Name: AC Power Supply Module
Model Number: PSM500-AC/PSM900-AC/PSM550-AC
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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, 2014/35/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/ce/>.

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, що передбачені чинними законодавчими актами України.

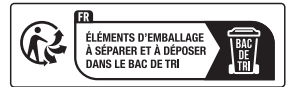


Industry Canada Statement

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

CE Mark Warning

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.



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 construction (for US version)
	Switch of micro-gap/micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)

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.



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