



瑞瑪企業有限公司
新北市221汐止區新台五路一段81號4樓之6
TEL: +886-2-2698 0575(Rep)
Website: <http://www.franmar.com.tw>

FranMar International Inc.
4F-6, No.81, Sec 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan
FAX: +886-2-2698 0585

User Manual

24W Power Adapter Desktop type
Model Name:FRA024-S12-4

User Manual and Safety Instructions

24W Power adapter Desktop type

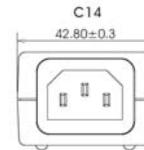
Model Name: FRA024-S12-4

Specification:

- The switching power supply meets RoHS requirement.
- DC Input: 100 to 240Vac, normal line is 115Vac or 230Vac. input current(rms): 0.7A(Max.)
Input Frequency: 47 to 63Hz.
- DC Output: +12V / 2A.
Output pin of the mounting connector (front view).



- Efficiency: comply with efficiency level VI.
- Protections: OVP, OLP, Short Circuit Protection
- LED Display: Blue LED; Power on: Light; Power off: No light
- Operation Conditions
Operation Temperature: -10°C to 60°C
Operation Humidity: 20% to 90%.
- Storage Conditions
Storage Temperature: -20°C to 85°C.
Storage Humidity: 5% to 95%.
- Mechanical
DC plug: 5.5 * 2.5 * 11 mm * 180°
DC cable: L=1000mm.
Weight :150 grams.
Dimension: 106.6 mm (L) × 42.8 mm (W) × 31.5 mm (H).



The following safety precautions must be observed during all phases of operation to avoid injury and prevent damage to the adapter.

⦿ INSTALLATION:

- (1) Avoid pulling on the AC cords and DC cables. Always grip DC plugs firmly when unplug from power source and when disconnect cables.
- (2) Before attaching the DC plug to the equipment, be sure unplugging the adapter from the AC main power and verify the unit is within the voltage and current rating on the equipment.
- (3) Keep the linkage between the adapter and its power cord tightly as well as connecting the DC plug to equipment properly.
- (4) To ensure adequate cooling of the adapter, be sure that there is at least 10-15 cm clearance around the adapter.
- (5) Disconnect the equipment from the adapter to avoid damage by voltage peaks or lightning strike when final equipment will not use for a long time.
- (6) Make sure power cord will not be trodden on or squashed.

⦿Safety:

Please pay special attention to these two types of notices used in this manual

WARNING: Failure to observe this warning may cause injury to persons and damage to power supply or connected equipment.

CAUTION: Failure to observe this warning may result in damage to equipment and improper functioning of the power supply.



⦿WARNING & CAUTION:

- (1) To avoid electric shock or fire hazard, do not apply a voltage to a terminal that is outside the range specified for that terminal.
- (2) To avoid electric shock or hazard, do not remove the cover when operate the adapter ; serious result include death from exposure to high voltage. And also be sure to unplug the adapter from its external power source before attaching the power tip.
- (3) Do not operate the adapter in extreme humidity (>90%) or near the water.
- (4) This adapter is for indoor use only.
- (5) Do not operate or place this adapter in a humid, dusty, in direct sunlight location or near any heat source.
- (6) Do not drop or subject the adapter to undue shock.
- (7) Do not place any heavy object on the top of adapter.
- (8) Before clean the adapter, please disconnect it from AC power and only use slightly damp cloth to clean the adapter.

Manufacturer :

FranMar International Inc.

4F-6, No. 8, Sec. 1., XinTai 5th Road,

Xizhi Dist., New Taipei City 221, Taiwan

Web: www.franmar.com.tw TEL: +886-2-2698-0575

If you have any questions, please contact with FranMar e-mail address: info_ready@franmar.com.tw

Compliance and Regulatory Statements

The following equipment: Power Adapter

Model Name:FRA024-Svv-w

(vv=05,07,09,12,15,18,24,30,36 or 48; w=4,6,8,A,C,E,U,I)

- **EMC – Emission** **FCC Part 15B Class B**
 IC-CAN ICES-3(B) NMB-3(B)

- **Safety** **IEC 62368-1:2014 ,UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14**

■ **FCC Regulatory statement:**

This device complies with part 15 of the FCC Rules operation is subject to the following two conditions:

1. This device may not caused harmful interference.
2. This device must accept any interference received, Including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

CAUTION: To comply with the limits of the Class B digital device. Pursuant to Part 15 of the FCC Rules, this device is to comply with Class B limits. All peripherals must be shielded and grounded .Operation with non-certified peripherals or non-shielded cables may result in interference to radio or reception.

■ ISED Statement

This digital equipment does not exceed Class B limits for radio noise emissions for digital apparatus, set out in Radio Interference Regulation of ISED Canada.

Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps necessary to correct the interference.

■ Notice d'ISDE

Cet équipement n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe B prescrites dans le Règlement sur le brouillage radioélectrique établi par l'ISDE Canada. L'exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions de radio et de télévision, ce qui obligerait le propriétaire ou l'opérateur à prendre les dispositions nécessaires pour en éliminer les causes.