ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *TDK / Kepco FAW12-4.2K* at our website: *Click HERE*

MANUFACTURER DATA SHEET

# Power Supply

Manufacturer:

# TDK

Model Number:

## FAW Series

PDF File: Doc_000061_Cover.pdf

Covers: Doc_000049_Covers.mdb

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

This page is intentionally left blank

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TDK CORPORATION

# TDK POWER SUPPLY

## Installation Instructions

## FAW Series

2QA01B197-003

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

## Introduction

The proper use of switching power supplies improves the reliability of your electronic equipment.
These power supplies have been designed for installation in electric machines and require an enclosure to be provided by the final machine manufacturer for protection against personal contact with live parts.
Please read these Installation Instructions thoroughly before actual use of the power supply.
Detailed instructions concerning product use are contained in the Specifications which are available upon request.

Pollution Degree : 2

---

## 1. Electrical Ratings :

15W Type

Input : 100—240Vac, 0.4A max, 50—60Hz

| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-3R0<br>FAW05-3R0P<br>FAW 5-3K | 5 | 3 | 15 |
| FAW12-1R3<br>FAW12-1R3P<br>FAW12-1.3K | 12 | 1.3 | 15.6 |
| FAW15-1R0<br>FAW15-1R0P<br>FAW15-1K | 15 | 1 | 15 |
| FAW24-0R7<br>FAW24-0R7P<br>FAW24-0.7K | 24 | 0.7 | 16.8 |



25W Type

Input : 100—240Vac, 0.7A max, 50—60Hz

| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-5R0<br>FAW05-5R0P<br>FAW 5-5K | 5 | 5 | 25 |
| FAW12-2R1<br>FAW12-2R1P<br>FAW12-2.1K | 12 | 2.1 | 25.2 |
| FAW15-1R7<br>FAW15-1R7P<br>FAW15-1.7K | 15 | 1.7 | 25.5 |
| FAW24-1R1<br>FAW24-1R1P<br>FAW24-1.1K | 24 | 1.1 | 26.4 |

50W Type

Input : 100—240Vac, 1.2A max, 50—60Hz

| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-10R<br>FAW05-10RP<br>FAW 5-10K | 5 | 10 | 50 |
| FAW12-4R2<br>FAW12-4R2P<br>FAW12-4.2K | 12 | 4.2 | 50.4 |
| FAW15-3R4<br>FAW15-3R4P<br>FAW15-3.4K | 15 | 3.4 | 51 |
| FAW24-2R1<br>FAW24-2R1P<br>FAW24-2.1K | 24 | 2.1 | 50.4 |
| FAW48-1R0<br>FAW48-1K | 48 | 1 | 48 |



100W Type

Output : 100—240Vac, 2.4A max, 50—60Hz

| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-20R<br>FAW05-20RP<br>FAW 5-20K | 5 | 20 | 100 |
| FAW12-8R3<br>FAW12-8R3P<br>FAW12-8.3K | 12 | 8.3 | 99.6 |
| FAW15-6R6<br>FAW15-6R6P<br>FAW15-6.6K | 15 | 6.6 | 99 |
| FAW24-4R2<br>FAW24-4R2P<br>FAW24-4.2K | 24 | 4.2 | 100.8 |
| FAW28-3R5<br>FAW28-3R5P<br>FAW28-3.5K | 28 | 3.5 | 98 |
| FAW48-2R0<br>FAW48-2R0P<br>FAW48-2K | 48 | 2 | 96 |

150W Type

Output : 100—240Vac, 3.5A max, 50—60Hz

| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-30R<br>FAW05-30RP<br>FAW 5-30K | 5 | 30 | 150 |
| FAW12-12R<br>FAW12-12RP<br>FAW12-12K | 12 | 12 | 144 |
| FAW15-10R<br>FAW15-10RP<br>FAW15-10K | 15 | 10 | 150 |
| FAW24-6R0<br>FAW24-6R0P<br>FAW24-6K | 24 | 6 | 144 |
| FAW28-5R0<br>FAW28-5R0P<br>FAW28-5K | 28 | 5 | 140 |
| FAW48-2R8<br>FAW48-2R8P<br>FAW48-2.8K | 48 | 2.8 | 134.4 |





Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

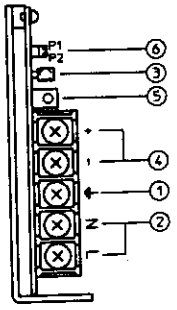
150W Type

Output : 100—240Vac, 3.5A max, 50—60Hz

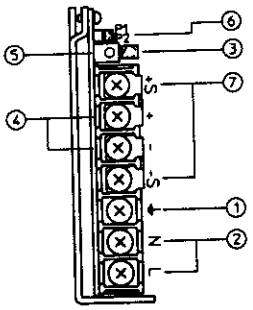
| Models | Output | | |
|---|---|---|---|
| | Voltage (Vdc) | Current (A) | Power (W) |
| FAW05-30R<br>FAW05-30RP<br>FAW 5-30K | 5 | 30 | 150 |
| FAW12-12R<br>FAW12-12RP<br>FAW12-12K | 12 | 12 | 144 |
| FAW15-10R<br>FAW15-10RP<br>FAW15-10K | 15 | 10 | 150 |
| FAW24-6R0<br>FAW24-6R0P<br>FAW24-6K | 24 | 6 | 144 |
| FAW28-5R0<br>FAW28-5R0P<br>FAW28-5K | 28 | 5 | 140 |
| FAW48-2R8<br>FAW48-2R8P<br>FAW48-2.8K | 48 | 2.8 | 134.4 |

## 2. Terminal Designation and Explanation :

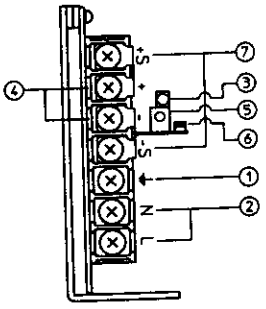
Type 15W, 25W



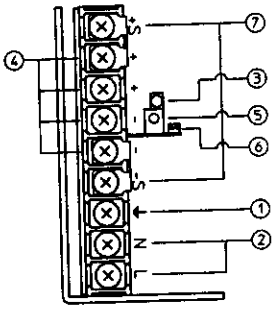

Type 50W




Type 100W




Type 150W








① ( ⏚ ) Protective Earth

This protective earth is provided for safety in accordance with EN 60950 / IEC950 and must be connected to the protective earthing conductor in the building.

② (L,N) Input Terminal

L : Live , N : Neutral

③ (ON) Output Voltage ON LED Indicator(Green)

④ (+, -) Output Terminal

For 5V output model(FAW150W), output current should be loaded through two terminals per each terminal(+,-), in order to prevent terminal temperature rise.

⑤ (V.ADJ) Output Voltage Adjustment Trimmer

Output Voltage can be adjusted by this trimmer.

⑥ Output ON Signal (Model - - - - P, - - - - K)

After output voltage is ON, TTL-Level signal is out from P1/P2.

⑦ (+S, -S) Remote Sensing Terminal

When the load effect is too big because of the line drop on the load wires, the load effect can be improved by remote sensing.

## 3. Operating Temperature :

0—50℃ (EN60 950)

4. An additional disconnect device shall be provided to disconnect the final equipment from the mains supply for servicing.

## 5. Input Fuse :

5-1 The following UL approved fuses are used :

| | | | | |
|---|---|---|---|---|
| Type | MT4 | 2A | 250V | for FAW15W |
| | MT4 | 2.5A | 250V | for FAW25W |
| | MT4 | 3A | 250V | for FAW50W |
| | SM | 5A | 250V | for FAW100W |
| | SM | 6.3A | 250V | for FAW150W |

5-2 For use in Europe: if the need arises to replace the fuse, replace it only with one of the following IEC approved fuses :

T2A for FAW15W
T2.5A for FAW25W
T3A for FAW50W
T5A for FAW100W
T6.3A for FAW150W





Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

## 6. Mounting :

The power supply can be installed using either only one or both of the surfaces provided.
Screw length must not exceed 5mm from the case surface.

6-1 For natural ventilation, install power supply as shown in Fig. 1 or Fig. 2.
A minimum 15mm distance is needed between adjacent equipment and power supply components.

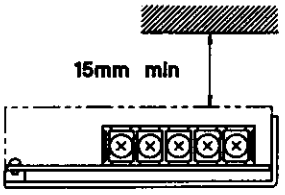



Fig. 1

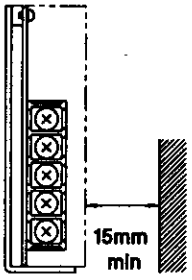



Fig. 2



6-2 Installation as shown in Fig. 3 or Fig. 4 should be avoided because it provides poor natural convection.

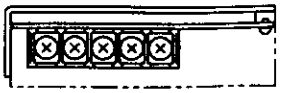


Fig. 3

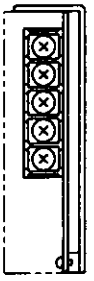
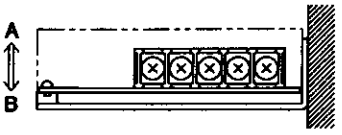



Fig. 4

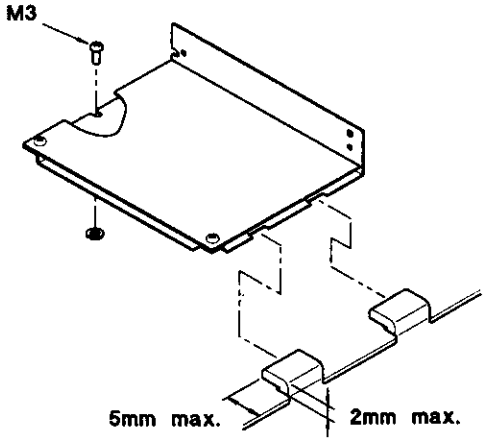
6-3 Install the power supply in such a way that stress is not applied in the direction of A⇔B.



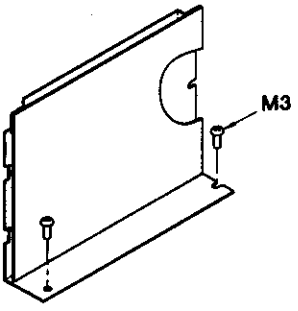



6-4 Mounting for FAW15W, 25W, 50W

- For horizontal mounting : use the two cutouts and the screw hole as illustrated below.




- For vertical mounting : use the two screw holes provided as illustrated below. Do not apply stress on adjacent components when mounting screw M3.




7. IT Network : For FAW 100W

7-1. The unit can be used in a 250Vac between the lines IT network.

7-2. The unit must be protected by a fuse for all poles (in the unit or installation).

8. CE Marking :

If the CE MARK is attached to this unit, it conforms to EN 60950 following the provisions of Low Voltage Directive 73/23/EEC. If the CE MARK is not attached to this unit, it conforms to EN 60950 only.





Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP