

INSTALLATION INSTRUCTIONS

TMP 07 Series

AC/DC Switching Power Supply

Order Code	Output Power max.	Output
TMP 07103	7 Watts	3.3Vdc / 1400mA
TMP 07105	7 Watts	5Vdc / 1400mA
TMP 07112	7 Watts	12Vdc / 585mA
TMP 07115	7 Watts	15Vdc / 465mA
TMP 07124	7 Watts	24Vdc / 290mA

Input Voltage Range:	85-264Vac / 47-440Hz	Terminal for Wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max Recommended tightening torque: 0.5 to 0.7Nm (4.5 to 6.2lb.in.)
Input Current:	0.16A typ. at Vin = 115VAC 0.10A typ. at Vin = 230VAC		
Operation Temperature Range:	-25°C~+71°C max	Case Material:	Plastic resin + Fibreglas UL 94V-0 flammability rating
Output Power Derating:	Above +50°C → 3.75%/°C		

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://www.tracopower.com/products/tmp.pdf>
 - The power supplies are constructed in accordance with the safety requirements of IEC/EN60950-1 and UL60950-1. They fulfil the requirements of the Low Voltage directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance to UL60950-1 (recognised).
 - Before an installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of non-observance touching at any alive components or improper dealing with this power supply can result in death, severe personal injury or substantial property damage. The successful and safe operation is dependent of proper storage, handling, installation and operation.
 - Compliance with the relevant national regulations (in the USA, Europe and the other countries) must be observed and ensured. Before operation is started the following conditions must be ensured:
 - Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - Power supply and mains cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity.
 - Sufficient cooling must be ensured
 - Keep away from fire and water!
 - **Never work on the power supply if power is**
- **supplied!** Risk of electric arcs and electrical shock which can cause death, severe personal injury or of substantial property damage.
 - **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!
 - **Do not open the power supply until at least 5 minutes after it has been disconnected from the mains on all poles.**

Installation Instructions:

- This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. Observe power derating. (see data sheet)
- **Recycling:** The unit contains elements which are suitable for recycling, and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life.

INSTALLATION INSTRUCTIONS

TMP 10 Series

AC/DC Switching Power Supply

Order Code	Output Power max.	Output 1	Output 2
TMP 10103	10 Watts	3.3Vdc / 2000mA	
TMP 10105	10 Watts	5Vdc / 2000mA	
TMP 10112	10 Watts	12Vdc / 830mA	
TMP 10115	10 Watts	15Vdc / 665mA	
TMP 10124	10 Watts	24Vdc / 415mA	
TMP 10212	10 Watts	+12Vdc / +380mA	-12Vdc / -380mA
TMP 10215	10 Watts	+15Vdc / +300mA	-15Vdc / -300mA

Input Voltage Range:	85-264Vac / 47-440Hz	Terminal for Wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max Recommended tightening torque: 0.5 to 0.7Nm (4.5 to 6.2lb.in.)
Input Current:	0.21A typ. at Vin = 115VAC 0.13A typ. at Vin = 230VAC		
Operation Temperature Range:	-25°C~+71°Cmax	Case Material:	Plastic resin + Fibreglas UL 94V-0 flammability rating
Output Power Derating:	Above +50°C → 3.75%/°C		

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://www.tracopower.com/products/tmp.pdf>
- The power supplies are constructed in accordance with the safety requirements of IEC/EN60950-1 and UL60950-1. They fulfil the requirements of the Low Voltage directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance to UL60950-1 (recognised).
- Before an installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of non-observance touching at any alive components or improper dealing with this power supply can result in death, severe personal injury or substantial property damage. The successful and safe operation is dependent of proper storage, handling, installation and operation.
- Compliance with the relevant national regulations (in the USA, Europe and the other countries) must be ensured. Before operation is started the following conditions must be ensured:
 - Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - Power supply and mains cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity
 - Sufficient cooling must be ensured
 - Keep away from fire and water
- **Never work on the power supply if power is supplied!** Risk of electric arcs and electrical shock which can cause death, severe personal injury or substantial property damage.
- **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!
- **Do not open the power supply until at least 5 minutes after it has been disconnected from the mains on all poles.**

Installation Instructions:

- This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. Observe power derating. (see data sheet)
- **Recycling:** The unit contains elements which are suitable for recycling, and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life

INSTALLATION INSTRUCTIONS

TMP 15 Series

AC/DC Switching Power Supply

Order Code	Order Code	Output Power max.	Output1	Output2	Output3
TMP 15105	TMP 15105C	15 Watts	5Vdc / 3000mA		
TMP 15112	TMP 15112C	15 Watts	12Vdc / 1250mA		
TMP 15115	TMP 15115C	15 Watts	15Vdc / 1000mA		
TMP 15124	TMP 15124C	15 Watts	24Vdc / 625mA		
TMP 15148	TMP 15148C	15 Watts	48Vdc / 310mA		
TMP 15212	TMP 15212C	15 Watts	+12Vdc / +625mA	-12Vdc / -625mA	
TMP 15215	TMP 15215C	15 Watts	+15Vdc / +500mA	-15Vdc / -500mA	
TMP 15252	TMP 15252C	15 Watts	+5Vdc / +1500mA	+12Vdc / +625mA	
TMP 15512	TMP 15512C	15 Watts	+5Vdc / +2000mA	+12Vdc / +200mA	-12Vdc / -200mA
TMP 15515	TMP 15515C	15 Watts	+5Vdc / +2000mA	+15Vdc / +150mA	-15Vdc / -150mA

Input Voltage Range:	85-264Vac / 47-440Hz	Terminal for Wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max. Recommended tightening torque: 0.5 to 0.7Nm (4.5 to 6.2lb.in.)
Input Current:	0.32A typ. at $V_{in} = 115VAC$ 0.16A typ. at $V_{in} = 230VAC$		
Operation Temperature Range:	-25°C~+71°Cmax		
Output Power Derating:	Above+50°C → 3.75%/°C	Case Material:	Plastic resin + Fibreglas UL 94V-0 flammability rating

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://www.minimax.com.tw/>
 - The power supplies are constructed in accordance with the safety requirements of IEC/EN60950-1 and UL60950-1, UL 508 and CSA C22.2 No 107.1-01. They fulfil the requirements of the Low Voltage Directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance to UL60950-1, UL 508 and CSA C22.2 No107 1-01 (recognised).
 - Before an installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of non-observance touching at any alive components or improper dealing with this power supply can result in death, severe personal injury or substantial property damage. The successful and safe operation is dependent of proper storage, handling, installation and operation.
 - Compliance with the relevant national regulations (in the USA, Europe and the other countries) must be ensured. Before operation is started the following conditions must be ensured:
 - Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - Power supply and mains cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity
 - Sufficient cooling must be ensured
 - Keep away from fire and water
 - The equipment for installation in a Pollution Degree 2 environment.
 - **Never work on the power supply if power is supplied!** Risk of electric arcs and electrical shock which can cause death, severe personal injury or substantial property damage.
 - **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!
- Do not open the power supply until at least 5 minutes after it has been disconnected from the mains on all poles.***

Installation Instructions:

- This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. Observe power derating. (see data sheet)
- **Recycling:** The unit contains elements which are suitable for recycling, and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life.

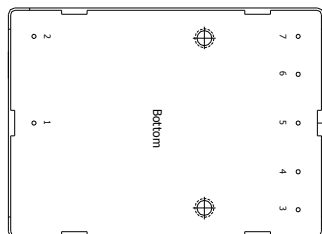
"CAUTION:FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL

Wiring terminals diagram:

PCB Mounting Version



UL508 recognition mark



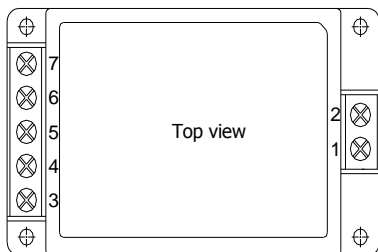
Pin Connections

Pin	Single Output	Dual Output
1	AC(N) - AC Neutral	
2	AC(L) - AC Line	
3	No Pin	
4	-Vout	-Vout
5	No Pin	Common
6	+Vout	+Vout
7	No Pin	

■ Chassis Mounting Version



UL 508 Listing

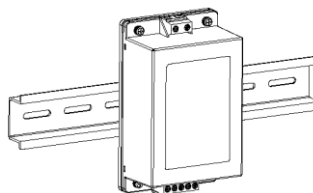
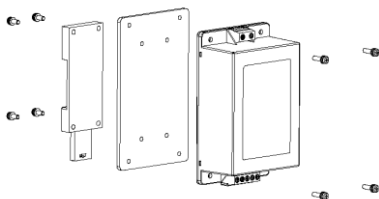


Pin Connections

Pin	Single Output	Dual Output
1	AC(N) - AC Neutral	
2	AC(L) - AC Line	
3	NC	
4	-Vout	-Vout
5	NC	Common
6	+Vout	+Vout
7	NC	

NC: No Connection

■ DIN-Rail Mounting Kit



INSTALLATION INSTRUCTIONS

TMP 30 Series AC/DC Switching Power Supply

Order Code		Output Power max.	Output1	Output2	Output3
TMP 30105	TMP 30105C	30 Watts	5Vdc / 6000mA		
TMP 30112	TMP 30112C	30 Watts	12Vdc / 2500mA		
TMP 30115	TMP 30115C	30 Watts	15Vdc / 2000mA		
TMP 30124	TMP 30124C	30 Watts	24Vdc / 1250mA		
TMP 30148	TMP 30148C	30 Watts	48Vdc / 625mA		
TMP 30212	TMP 30212C	30 Watts	+12Vdc / 1300mA	-12Vdc / -1300mA	
TMP 30215	TMP 30215C	30 Watts	+15Vdc / +1000mA	-15Vdc / -1000mA	
TMP 30252	TMP 30252C	30 Watts	+5Vdc / +3000mA	+12Vdc / +1250mA	
TMP 30512	TMP 30512C	30 Watts	+5Vdc / +3000mA	+12Vdc / +1000mA	-12Vdc / -250mA
TMP 30515	TMP 30515C	30 Watts	+5Vdc / +3000mA	+15Vdc / +500mA	-15Vdc / -500mA
TMP 30317	TMP 30317C	30 Watts	+5Vdc / +4500mA	+3.3Vdc / +1000mA	+12Vdc / +250mA
TMP 30316	TMP 30316C	30 Watts	+3.3Vdc / +4000mA	+5Vdc / +1500mA	+12Vdc / +250mA

Input Voltage Range:	85-264VAC/47-440Hz	Terminal For Wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max Recommended tightening torque: 0.5 to 0.7Nm (4.5 to 6.2lb.in.)
Input Current:	0.6A typ. at $V_{in}=115VAC$ 0.3A typ. at $V_{in}=230VAC$		
Output Voltage Accuracy	±2.0%		
Operation Temperature Range:	-25°C~+71°Cmax	Case Material:	Plastic resin + Fiberglass UL 94V-0 flammability rating
Output Power Derating:	Above+50°C → 3.75%/°C		

Safety Instructions:

- > Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://www.tracopower.com>
- > The power supplies are constructed in accordance with the safety requirements of IEC/EN60950-1 and UL60950-1, UL508 and CSA C22.2 No107.1-01. They fulfil the requirements of the Low Voltage Directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance to UL60950-1, UL508 and CSA C22.2 No107.1-01 (recognised).
- > Before an installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of non-observance touching at any alive components or improper dealing with this power supply can result in death, severe personal injury or substantial property damage. The successful and safe operation is dependent of proper storage, handling, installation and operation.
- > Compliance with the relevant national regulations (in the USA, Europe and the other countries) must be ensured. Before operation is started the following conditions must be ensured:
 - Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - Power supply and mains cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity
 - Sufficient cooling must be ensured
- > **CONDITIONS:**
 - Keep away from fire and water
 - The equipment for installation in a Pollution Degree 2 environment.
- > **Never work on the power supply if power is supplied!** Risk of electric arcs and electrical shock which can cause death, severe personal injury of substantial property damage.
- > **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!

Do not open the power supply until at least 5 minutes after it has been disconnected from the mains on all poles.

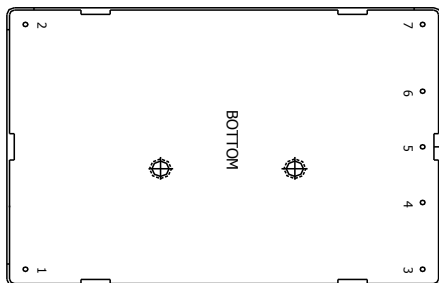
Installation Instructions:

- > This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- > The correct mounting position for optimal cooling performance must be observed. Observe power derating. (see data sheet)
- > **Recycling:** The unit contains elements which are suitable for recycling, and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life.

**“CAUTION:FOR USE IN A CONTROLLED ENVIRONMENT.
REFER TO MANUAL FOR ENVIRONMENTAL**

Wiring terminals diagram:

PCB Mounting Version



Pin Connections

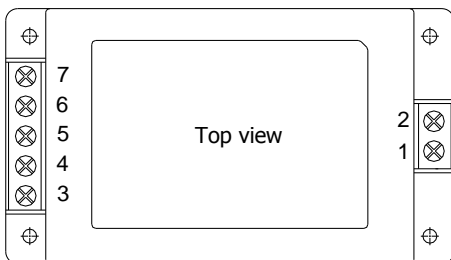
Pin	Single Output	Dual Output
1	AC(N) - AC Neutral	
2	AC(L) - AC Line	
3	+Vout	+Vout
4	No Pin	
5	-Vout	Common
6	No Pin	
7	NC	-Vout

NC: No Connection

Chassis Mounting Version



UL 508 Listing

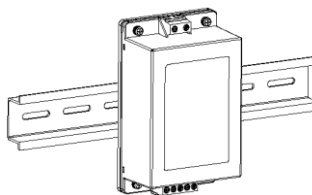
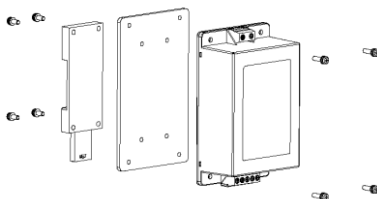


Pin Connections

Pin	Single Output	Dual Output
1	AC(N) - AC Neutral	
2	AC(L) - AC Line	
3	+Vout	+Vout
4	NC	
5	-Vout	Common
6	NC	
7	NC	-Vout

NC: No Connection

■ DIN-Rail Mounting Kit



INSTALLATION INSTRUCTIONS

TMP 60 Series AC/DC Switching Power Supply

Order Code	Order Code	Output Power max.	Output1
TMP 60105	TMP 60105C	51 Watts	5.1Vdc / 10.0A
TMP 60112	TMP 60112C	60 Watts	12.0Vdc / 5.0A
TMP 60115	TMP 60115C	60 Watts	15.0Vdc / 4.0A
TMP 60124	TMP 60124C	60 Watts	24.0Vdc / 2.5A
TMP 60136	TMP 60136C	60 Watts	36.0Vdc / 1.666A
TMP 60148	TMP 60148C	60 Watts	48.0Vdc / 1.25A

Input Voltage of Rated :	100-240Vac / 50 – 60Hz	Terminal for Wiring:	PCB mounting with solder pin's or Screw type terminal: Wires 1.5mm ² max. Recommended tightening torque(Used Copper Conductors only, 60/75°C): 0.5 to 0.6Nm (4.4 to 5.3lb.in.)
Input Current:	1520mA max.		
Operation Temperature Range:	-10°C – +50°C max. -10°C – +40°C max. (FOR 5.1V ONLY)	Case Material:	Plastic Resin + Fibreglas UL 94V-0 flammability rating

Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot claim for every possible example of installation, operation or maintenance. Further information's are obtainable from your local distributor office or from the product data sheet which can be downloaded from the Internet at <http://www.tracopower.com/products/tmp.pdf>
 - The power supplies are constructed in accordance with the safety requirements of IEC/EN60950-1 and UL60950-1, UL508 and CSA C22.2 No107.1-01. They fulfil the requirements of the Low Voltage Directive (LVD) and carries the CE-mark. They are UL and cUL approved in accordance to UL60950-1,UL508 and CSA C22.2 No107.1-01 (recognised).
 - Before an installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. In case of non-observance touching at any alive components or improper dealing with this power supply can result in death, severe personal injury or substantial property damage. The successful and safe operation is dependent of proper storage, handling, installation and operation.
 - Compliance with the relevant national regulations (in the USA, Europe and the other countries) must be ensured. Before operation is started the following conditions must be ensured:
 - Connection to mains supply in compliance with national regulations (VDE0100 and EN50178).
 - By use of stranded wires, all strands must be fastened in the terminal blocks.
 - Power supply and mains cables must be sufficiently fused.
 - All output wires must be rated for the power supply output current and must be connected with the correct polarity
 - Sufficient cooling must be ensured
 - Keep away from fire and water
 - The equipment for installation in a Pollution Degree 2 environment.
 - **Never work on the power supply if power is supplied!** Risk of electric arcs and electrical shock which can cause death, severe personal injury of substantial property damage.
 - **Warning:** Hazardous voltages and components storing a very substantial amount of energy are present in this power supply during normal operating conditions. However, these are inaccessible. Improper handling may result in an electric shock or serious burns!
- Do not open the power supply until at least 5 minutes after it has been disconnected from the mains on all poles.***

Installation Instructions:

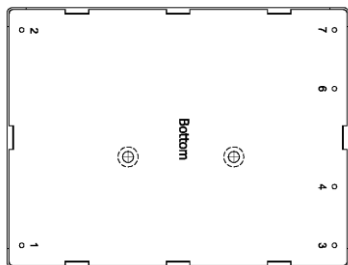
- This power supply is designed for professional indoor systems. In operation the power supply must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. Observe power derating. (see data sheet)
- **Recycling:** The unit contains elements which are suitable for recycling, and components which need special disposal. You are therefore requested to make sure that the power supply will be recycled by the end of its service life.

"CAUTION:FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL

Wiring terminals diagram:

PCB Mounting Version

cUL[®] US UL508 recognition mark

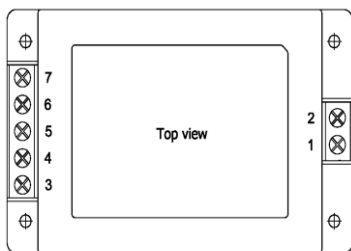


Pin Connections

Pin	Function
1	AC(N) – AC Neutral
2	AC(L) – AC Line
3	No Pin
4	+Vout
6	-Vout
7	No Pin

Chassis Mounting Version

cUL[®] US
LISTED UL 508 Listing



Pin Connections

Pin	Function
1	AC(N) – AC Neutral
2	AC(L) – AC Line
3	NC
4	+Vout
5	NC
6	-Vout
7	NC

NC: No Connection

DIN-Rail Mounting Kit

