

SWITCHING MODE DC REGULATED POWER SUPPLY

TP30SWII

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INSTRUCTION MANUAL

Thank you for purchasing the switching mode DC regulated power supply. TP30SWII The TP 30SWII instruction manual contains important safety and operating instructions. Read this m anual carefully before using this product. Keep the manual for future reference.

INTRODUCTION

TP30SWII is a high efficiency, compact, lightweight, high performance switching mode power supply. It is also engineered to minimize the switching noise spec ifically for communication use. Even when noise occurs, it may be eliminated with the Noise-Offset function. Also convenient functions like pre-set voltage, and a highly visible back lit meter are standard in this power supply.

CAUTION

- 1. Even though the chassis of the unit is negatively grounded, use the correct terminals to connect cable.
- 2. When plugging the unit into a wall outlet, it must be turned off.
- 3. Place the unit in a dry and wellventilated area.
- 4. Never touch the unit while in use. Even though it is designed for high efficiency, the unit will still get hot. If the unit rea ches a certain temperature the extreme temperature protection "function will prot ect the unit.
- 5. A current limiting system will protect the unit from overloading.
- 6. If a short circuit occurs at the output. the unit is protected by a short circuit protection function. Immediately turn off the unit and repair the cause of the short circuit, then turn it back on.

- 7. Do not use the unit for devices that require high current input at the start, such as motorized equipment. Do not use the unit to charge a car battery.
- 8. Do not use a car cigarette lighter in the cigarette plug socket on the unit.
- 9. Before replacing a fuse make sure the unit is turned off. Be sure to use the specified type of fuse.
- 10. Make sure the product is always suitably grounded to prevent electric shock and to reduce noise.
- 11. Never disassemble, modify, or touch the inside of the unit unnecessarily. This could cause damage to the product and will void the warranty.



Use this unit in room temperatures, (10to 35 degrees centigrade or 50 to 95 degrees Fahrenheit) Keep the unit in a dry and well-ventilated place. Do not use the unit indirect sun-light, or Compulsory where it may come in contact with water or in a poorly ventilated area. It may cause heat, fire and damage to the unit.

Place the unit on a secure and horizontal surface. If it is placed on an unstable surface, the unit may drop and cause damage and injury. This will Compulsory also be helpful in getting accurate meter readings.



Do not cover the air vent on the chassis or the fan. This may cause extreme heat, fire Prohibited and damage.

Prohibited

Do not use the unit for devices that require high current input at the start, such as motorized equipment. Do not use the unit to charge a car battery. This may cause damage to the unit.

are to be connected meet the specifications of this unit, otherwise it may cause damage to the product.

Make sure that the devices that

Never leave the unit within a

them or burn their-skin.

Prohibited

Prohibited

child's reach. This may injure



ette lighter in the cigarette ligher socket of this product. Otherwise, the product Prohibited may become damaged.

Never try to use a car cigar-



SPECIFICATIONS

110VAC 60Hz Input voltage: 9-15VDC variable Output voltage: less than 2% Output voltage regulation: short-circuit, Automatic current limiting over 30A, over-temperature Protection: Output current: 30A(max), 25A(continuous) less than 80mVp-p at rated load Ripple: Fuse: 8A single volt/current meter, back-lit Meter: $190(W) \times 69(H) \times 181(D) \text{ mm}$ (Projections not included) Dimensions: approx. 2. 3kg Weight:

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Do not disassemble, modify or repair the unit unless otherwise specified in the manual. Only an authorized technician may do this. Never modify the cable to ex-Disassembly prohibited tend or shorten it. This may cause fire and or electric shock, and will void the warranty.

Always hold the plug when plugging and unplugging the unit. Never unplug the unit by pulling the cable. It may Prohibited cause fire, shock and damage to the unit.



Do not plug/unplug the unit with wet hands. It may easily cause electric shock.



Prohibited

Do not use the unit where there may be flammable gas. This may cause fire and ex-Prohibited plosion.

> Unplug the cable when replacing the fuse. Use the specified fuse only. Using the wrong fuse could cause heat and fire.

Never use the unit outside, in a bathroom, or any other place where the unit could become wet. Do not rest anything that contains liquid on the product. If liquid gets inside the unit it could cause fire, shock and damage to the wet place is unit. If this happens, unplug the unit immediately. Do not use the unit in a humid environment. If dew condenses on the unit, dry it completely before use.

Unplug the unit during maintenance. Otherwise it may cause shock and damage to Disconnect the power the product. plug from the socket

Unplug immediately if anything noticeably unusual happens, such as smoke and or strange odors coming from Disconnect the unit. Contact our authothe power rized service centers imme-plug from rized service centers imme-

PART NAMES AND FUNCTIONS

Front View

Rear View



- (1)Power switch: Turns the unit on and off.
- Meter switch: Select the position to indicate voltage (V) or current (A).
- 3 Meter: Displays the voltage or current.
- Snap in output terminal: 3A max. Red positive, black negative. (4)
- (5) Cigarette plug terminal: 10A max.
- (6) Voltage adjustment: Adjusts voltage between 9.0 and 15.0 volts. Turn clockwise to increase and counter clockwise to decrease the voltage. When it is set at the center position it will supply 13.8 volts.
- ⑦ Noise off-set volume control: Adjust to eliminate the pulse noise of the switching circuit. This patent pending function is specially designed for communication use. (It's effectiveness may vary depending on the frequency and mode.)
- 8 Cooling fan: The fan turns on and off automatically.
- 9 Output control switch: Turn this switch to the adjust position and adjust (6) to the desired output level. / Fixed output 13, 8V.
- 10 Heat sink: Do not touch the surface when the unit is in use. Let the cool down completely before touching it.
- Output terminal: 30A max. Red positive, black negative. (11)
- Grounding Power cable: 110VAC (12)
- (13)Fuse: 8A

FOR YOUR SAFETY

The following pages explain how to avoid possible accidents and damage to the user and his property. They will explain the proper manner in which to use this product.

Explanation of caution indications

Caution	Indication Meaning
🕂 Danger	Improper handling presents an immediate danger of death or serious injury.
Warning	Improper handling may lead to death serious injury.
▲ Caution	Improper handling presents a risk to physical health $_{\star 1}$ or property. $_{\star 2}$

*1: injuries, skin burns, electric shocks, etc. not requiring hospitalization or extensive medical treatment.

*2 extensive damage to buildings and possessions; injury to domesticated animals and pets.

Explanation of symbols

Symbol	Meaning of symbol
	This symbol indicates actions that must be strictly avoided. The de- tails of the actions to be avoided are written in or around the symbol using graphics and/or text.
0	This symbol indicates that there are procedures that must be followed without fail. The procedures to be followed are described in or around the symbol using graphics and/or text.
G	This symbol indicates that the power plug must be disconnected from the socket. Details of the warning are written in or around the symbol using graphics and/or text.

Before using this product, please note that we shall not assume any responsibility whatsoever for purely economic losses, such as lost commonication opportunities, resulting from breakdowns, incorrect operation, product problems, or external causes such as power cuts.



This unit should only be used with a standard wall outlet 110VAC. If it is used in any other manner electric shockand fire could occur.



Wash immediately with water if any liquid leaks from inside the unit and comes in contact with skin and or clothes. It may irritate the skin and could stain clothing. If any liquid gets into the eye, wash immediately and contact a doctor. It may cause injury to the eye.



Do not short-circuit the cables. Make sure the cables are connected to the correct terminal (Positive to positive and negative to negative)