



POWER SUPPLY FOR ELECTRIC TOOLS INSTRUCTION MANUAL

Alternating Current (AC) INPUT: 100 – 240 VAC 47-63 Hz.

Direct Current (DC) OUTPUT: 30 VDC 5 A

Important Safety Information

Please read, understand and follow all safety information contained in these instructions prior to the use of this Power Supply. Retain these instructions for future reference.

Intended Use

The 3M Power Supply Model 28436 is intended for use in industrial locations, and used only by skilled, trained professionals in accordance with the instructions in this manual. It is designed to be used with 3M Electric Power tools. Used in any other manner or with other power tools could lead to unsafe operating conditions.

Do not operate Power Supply in an excessively damp or wet application.

Explanation of Signal Word Consequences

	WARNING:	Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury and/or property damage.
	CAUTION:	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.
	Notice:	Indicates a potentially hazardous situation, which, if not avoided, may result in property damage.

Summary of device labels containing safety information

Symbol	Description	Symbol	Description
	Underwriters Laboratories, Inc., United States and Canada	VAC	Volts Alternating Current
VDC	Volts Direct Current		
Hz	Hertz		
A	Amper		

SAFETY WARNINGS

WARNING: read all safety warnings and instructions
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAVE THESE INSTRUCTIONS – this Operator's Manual contains important safety and operating instruction for 3M Power Supply.

To reduce the risk of injury. Operate the 3M Electric power tool with the 3M Power Supply. Other types of power supplies may cause personal injury or damage.

Avoid dangerous environments. Do not operate the tool or Power Supply in rain, snow, damp or wet locations. Do not use Power Supply in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing attached tool, possibly causing fire.

Maintain power cords and cables. When unplugging AC power cord, pull plug rather than cord to reduce the risk of damage to the electrical plug and cord. Never carry Power Supply by its cord. Keep cord from heat, oil and sharp edges. Make sure cord will not be stepped on, tripped over or subjected to damage or stress. Do not use Power Supply with damaged cord or plug. Have a damaged cord replaced immediately.

Do not use an extension cord unless it is absolutely necessary. Using the wrong, damaged or improperly wired extension cord could result in the risk of fire and electrical shock. If an extension cord must be used, plug the Power Supply into a properly wired 18 AWG or larger extension cord with pins that are the same number, size and shape as the pins of the power supply cord. See table below. Make sure that the extension cord is in good electrical condition.

Tool Current	EXTENSION Cord Length ft (m)			
	25 (7.6)	50 (15.2)	75 (22.8)	100 (30.4)
0 – 6 A (mm 2)	18 AWG (1.0)	16 AWG (1.5)	16 AWG (1.5)	14 AWG (2.5)

Power Supply is rated for 100-240 Volt AC only (Evaluated @ 100-120 Volt AC only for U.S. and Canada). Power Supply must be plugged into an appropriate receptacle.

Unplug Power Supply when not in use. Remove Electric tool from the unplugged Power Supply.

To reduce the risk of electric shock. Always unplug Power Supply before cleaning or maintenance. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.

Do not crush, drop or damage Power Supply. Do not use a Power Supply that has received a sharp blow, been dropped, run-over, or damaged in any way (e.g. pierced with a nail, hit with a hammer, stepped on).

Do not disassemble. Incorrect reassembly may result in the risk of electric shock or fire. If it is damaged, return to 3M for service.

Do not short circuit. A tool's power supply will short circuit if a metal object makes a connection between the positive and negative contacts on the DC connection socket (See Fig. 2). Do not place an Electric tool near anything that may cause a short circuit, such as coins, keys or nails. A short circuited power supply may cause fire and personal injury.

Store your Electric tool and Power Supply in a cool, dry place. Do not store the tool's power supply where temperatures may exceed 105°F (40°C) such as in direct sunlight, a vehicle or metal building during the summer.

Product Configuration / Specifications: Power Supply

Model Number	Mains Input Voltage*	Mains Frequency	Output	Efficiency	Total Output Regulation	Operating Temperature C (F)	Operating Humidity
28436	100-240	47-63 Hz	30 VDC 5A	85% Min.	+/- 2%	0-40 (23-105)	10-90% H

*Note: Device evaluated @ 100-120 VAC only for U.S. and Canada

Power Supply Operating Instructions

TURNING POWER SUPPLY ON/OFF

CAUTION: Make certain the Switch on the Power Supply is in the "0" (OFF) position, and the AC power source is the same as specified range on the Power Supply nameplate.

1. Connect AC power cord to AC three-prong socket and connect one end of the DC cable to the two-prong 30 VDC socket. (See Figure 2.)
2. Connect the other end of the DC cable to the Electric Power Tool. Ensure both ends of the DC cable are connected and screwed in completely.
3. Turn the Power Supply switch "ON" ("I" position). The "DC OK" LED lamp showing Green indicates proper functioning of the Power Supply. To turn off the Power Supply off, move the switch to the "0" (OFF) position.
4. Power Supply must be installed in an environment with temperature 0-40°C and Relative Humidity 10-80%.
5. The extrusion housing of the Power Supply is designed as a heat sink to dissipate heat generated by the Power Supply. Keep a 30 cm minimum gap around all sides of the Power supply. (see Figure 4.)
6. Power Supply comes with a set of protective rubber frames. Then simply press onto the ends of the Power Supply if desired. (See Fig. 6.)

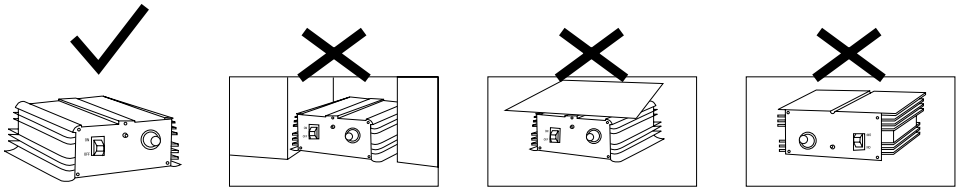


Figure 1

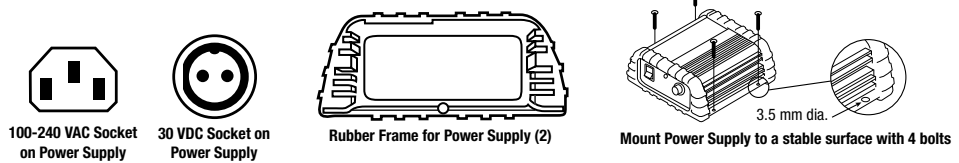


Figure 2

Figure 3

Figure 4

POWER SUPPLY TROUBLE SHOOTING

1. Problem:

"DC OK" LED Lamp is off:

Solution A:

Make sure AC power cord is plugged into the socket properly, then make sure the switch is in the "I" (ON) position.

Solution B:

Remove the DC cable from DC connector, and make sure AC switch is on.

Solution C:

Inspect the DC cable and the AC cord for damage. If damaged, replace with parts available from 3M.

If "DC OK" LED lamp is still off after trying Solutions A - C, it means Power Supply has failed. There is no serviceable parts inside the housing. Return Power Supply to 3M for service.

2. Problem:

"DC OK" LED Lamp is on but showing Red color.

Solution:

Power Supply is overheated. Turn power off and allow to cool for 30 minutes.

HEALTH AND SAFETY INFORMATION

RoHS Compliant

This product and the associated component parts are "RoHS Compliant" and do not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC and other amendments issued as of the date code marked on the product. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

Waste Electrical & Electronic Equipment (WEEE) Compliant

At the end of its useful life, this product pursuant to European Directives 2002/96/CE + 2003/108/CE and its implementation in national law, must not be released into the environment or thrown away as domestic waste, but must be disposed of at authorized recycling centers (contact the relevant local authorities for a list of places where the product may be disposed of according to the law). Disposing of the product correctly contributes to protecting human health and safeguarding the environment.



Federal Communications Commission (FCC) Compliance Statement

IMPORTANT NOTE: 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 a 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.

NOTICE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

The 3M Electric Random Orbital Sander System

3M Electric Random Orbital Sanders

Part Number

28426

28427

28428

28429

28430

28431

28432

28433

3M Power Supply

28436

Warranty and Limited Remedy: 3M warrants this tool against defects in workmanship and materials under normal operating conditions for one (1) year from the date of purchase. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M tool is fit for a particular purpose and suitable for user's application. User must operate the tool in accordance with all applicable operating instructions, safety precautions, and other procedures stated in the operating manual to be entitled to warranty coverage. 3M shall have no obligation to repair or replace any tool or part that fails due to normal wear, inadequate or improper maintenance, inadequate cleaning, nonlubrication, improper operating environment, improper utilities, operator error or misuse, alteration or modification, mishandling, lack of reasonable care, or due to any accidental cause. If a tool or any part thereof is defective within this warranty period, your exclusive remedy and 3M's sole obligation will be, at 3M's option, to repair or replace the tool or refund the purchase price.

Limitation of Liability: Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Submitting a Warranty Claim: Contact your dealer when submitting a warranty claim in accordance with the restrictions listed above. Please note that all warranty claims are subject to manufacturer's approval. Be sure to keep your sales receipt in a safe place. This must be submitted when filing a warranty claim, within 1 year from the date of purchase. For additional assistance call 1-800-362-3550.

Product Repair after Warranty Has Expired: Repair of 3M Abrasive Power tools that are not under warranty is available through 3M or a 3M Authorized Tool Repair Representative. Contact your 3M Abrasive Power Tool Distributor for details, or call 1-800-362-3550.

EC Declaration of Conformity



Manufacturers Name: 3M, Abrasive Systems Division
Manufacturers Address: 3M Center, Building 223-6N-02
St Paul, MN USA 55144

Does hereby declare that the device described below complies with those applicable essential health and safety requirements of the Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC, and RoHS Directive 2002/95/EC; together with all amendments to date.

Description: Power Supply for 3M Electric Tools

Model Number: 28436

The following standards have either been referred to, or complied with, in full or in part as relevant:

Safety Standards: EN 61558-1:2005 +A1:2009	Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests
EMF Standards: EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure
EMC Standards: EN 55011:2007 (Class A) EN 61000-3-2:2006 EN 61000-3-3:2008 EN 61000-6-2:2005	Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement Electromagnetic compatibility (EMC) Part 3-2: Limits – Limits for harmonic current emissions (equipment input current 16 A per phase) Electromagnetic Compatibility (EMC) Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current 16 A per phase and not subjected to conditional connection Electromagnetic compatibility (EMC). Generic standards. Immunity standard for industrial environments

Full Name of responsible person:

Stefan A. Babirad

Position: Technical Director

Signature: 

Date: 

St Paul, Minnesota, USA

Full Name and address of individual responsible to compile technical file within the Community:

Mr. Claus Geiger - Marketing Operations, Abrasive Systems Division, 3M Deutschland GmbH, Carl-Schurz-Strasse 1, D-41453 Neuss, Germany

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