



# MAGNUM<sup>©</sup>

INSTALLATION MANUAL  
V1.0



*Thank you for choosing our XG Power Supply. We at XG commit ourselves to fulfilling all of our customer's needs. We issue only the best product possible to ensure total customer satisfaction. Please enjoy your new XG Power Supply!*

## **ABOUT US**

XG stands for Extreme Gamer. That is what we are all about. Giving the best possible product and performance to the Extreme Gamer out there. XG is a subsidiary of MGE Company.

## **MISSION STATEMENT**


MGE's mission is to be the largest computer electronic manufacturer in the world. With rapid growth and an ever growing trend of "do-it-yourself" computer components – MGE sets itself apart from the competition by providing "do-it-yourself made easy" components. MGE's main goal is to help educate the public and provide easy installation of all computer components and electronics. MGE is committed to providing the best quality, performance and customer care to all of its products and customers alike.

## **COMPANY VISION**

MGE sets its sights on high performance, quality, and customer care far beyond that of any other computer component manufacturer. MGE takes care of every client with respect and offers them valued options that no other competitor can commit to. MGE sees the computer component industry with a fresh look and promises to set the standard in this diverse computer industry.

## **OUR COMPANY MOTTO**

"Work Hard. Play Hard."

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## HOW TO USE THIS MANUAL

The contents of this manual are explained briefly on this page to help you make the best use of the manual. Please read this page and the rest of the Owner's Manual carefully to make sure you fully understand the operation of your power supply.

This will ensure a safe and easy installation and enjoyment of your new power supply.

## BASIC OPERATION - QUICK REFERENCE

Operation of basic equipment is briefly explained in an easy reference to the appropriate pages.

SECTION 1: FEATURES

SECTION 2: EXTERIOR LAYOUT

SECTION 3: LCD DISPLAY

SECTION 4: MODULAR CONNECTIONS

SECTION 5: VOLTAGE ACTIVITY LIGHTS

SECTION 6: HEATPIPE & HEATSINK COOLING

SECTION 7: INSTALLATION OF PSU ONTO CHASSIS

SECTION 8: INSTALLATION OF MODULAR CONNECTIONS

SECTION 9: SPECIFICATIONS

SECTION 10: PROTECTIONS

SECTION 11: TROUBLESHOOTING

SECTION 12: RETURN POLICY

SECTION 13: WARRANTY

If have any questions, concerns, or need technical support - please contact: [support@mgecompany.com](mailto:support@mgecompany.com)  
Please allow 1 full business day for a representative to contact you, or you may also address your inquiry to our online entry form at, <http://www.mgecompany.com/main/support.htm>



Please note that Magnum may not fit all cases. Check the size and compatibility of your case's power supply slot before installation.  
Please check that all parts are accounted for! If there are any missing components, do NOT return to place of purchase.  
Please contact MGE Company through <http://www.mgecompany.com/main/support.htm> to request for those missing parts.

**100%**

ALUMINUM  
CHASSIS

### 100% Aluminum Chassis

2.0mm 6065 Super thick anodized rounded aluminum chassis.



ADVANCED  
AIR FLOW

### Advanced Airflow

Low gravity construction, especially created for heat wave airflow design. Most advanced airflow design, 350W fan less, 500W with low dab fan.



SILENCE

### Silence

Super silent 80mm fan successfully reduces acoustic noise giving more airflow in less rpm and smooth mechanical design.

REAR  
LCD  
DISPLAY

### Rear LCD Display

LCD display shows:

1. Power working temperature with alarm
2. Wattage output
3. 12V output monitor display



INTERFERENCE

### No Interference

Magnetically shielded cable with UV plastic cable.



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### S-ATA Connectors

Connect your system to the faster S-ATA interface for better performance.



### Output Voltage Monitor

Voltage LED display shows each individual connector output.



### ATX 12V Version 2.0 Compatible

Support latest P4 Prescott and Athlon processors based systems: P4 main boards that use 875 (Canterwood) and 865 (Springdale) chipsets, and also fully support power requirements for platform using chipsets like Intel 925 (Alderwood) or 915 (Grantsdale) and next generation CPU.



### Active PFC Function

Industrial "Double Forward" interior design utilizes ACTIVE PFC and maintains 99% steady performance.



### Fiber Optic Technology

PCB is using full fiber optic, which is specially designed for high heat tolerance.



WORLDWIDE  
COMPATIBLE

### **Worldwide Compatible:**

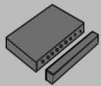
Includes all voltage in power supply from 110V to 230V. Worldwide hassle free usage.



RELIABILITY

### **Reliability:**

OCP, UVP, OVP, OLP, OTP and SCP circuits ensure system well guarded from any danger. Maximize safety for your hardware and valuable data. All Certified EMC/FCC, UL, TUV, and CE.



MOLEX  
DETACHABLE  
CONNECTION

### **Modular Molex Connection:**

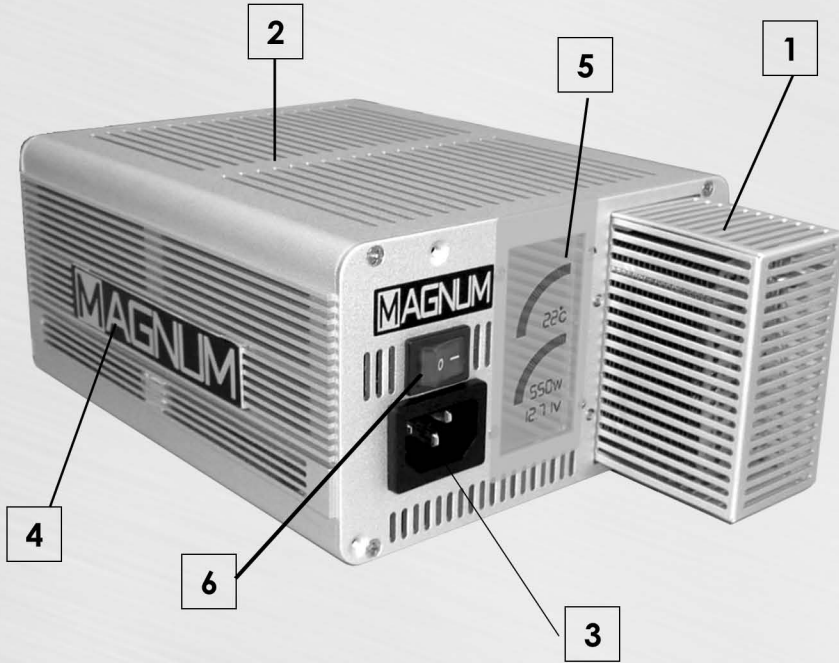
With Modular Molex Connection, one will no longer have trouble with useless messy cables.



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## SECTION 2: EXTERIOR LAYOUT, Part 1

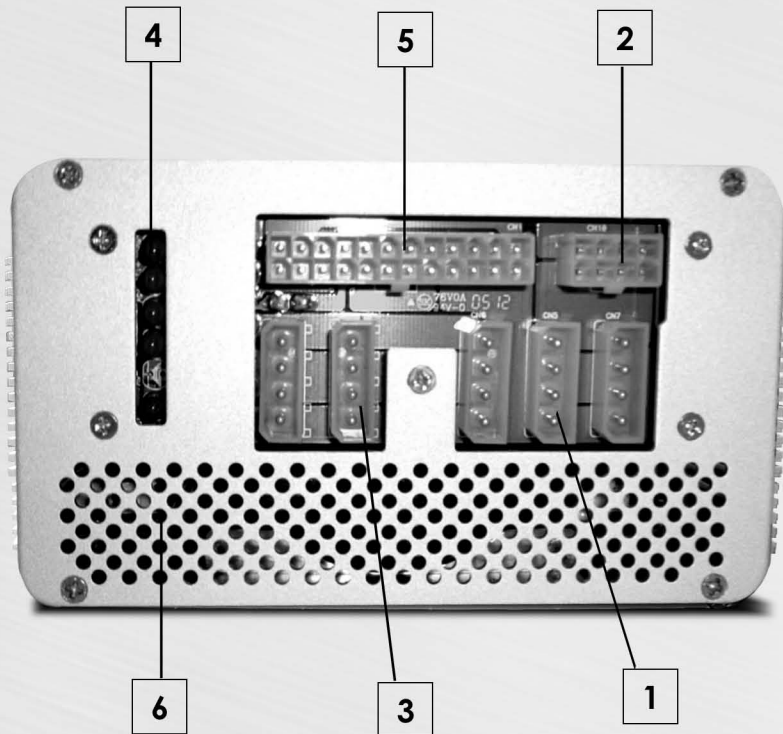
# MAGNUM<sup>®</sup>



### PART DESCRIPTION:

1. External Radiator Cooler: transfers heat to the exterior case in which it cools down by room temperature.
2. Aluminum Housing: aluminum chassis drops overall psu temperature by 3 degrees.
3. Input Power Connection: powers the psu and computer.
4. Aluminum Name Plate: internal name plate looks great within all types of systems.
5. LCD Display: displays temperature, all three voltage lines and wattage.
6. Power Switch: turns on/off power supply.

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### PART DESCRIPTION:

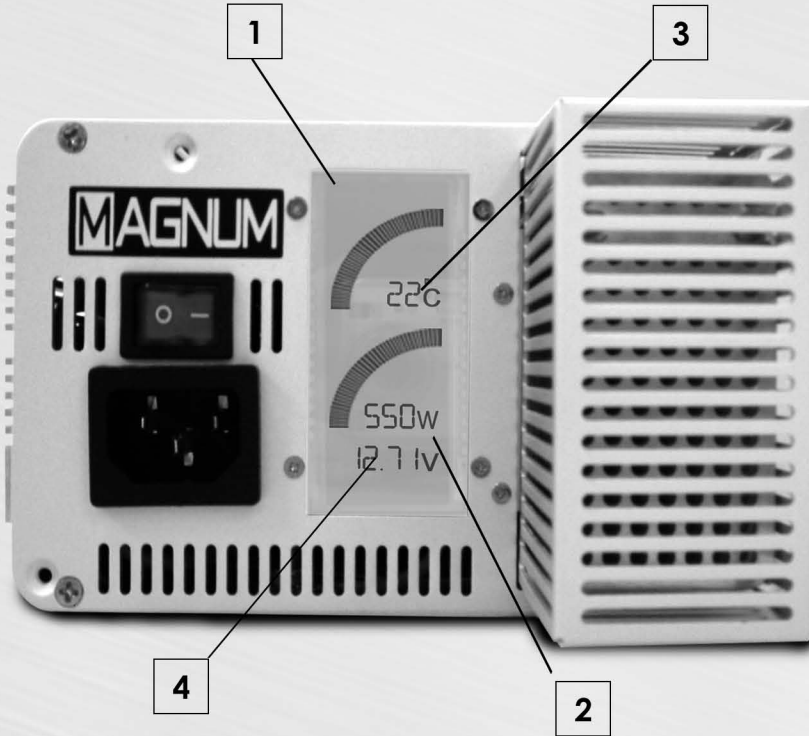
1. Molex 3Pin Connections: powers up internal peripheral components using standard male molex connections.
2. CPU Power 8Pin: provides ample power for all cpu types from both Intel and AMD.
3. PCI Express Connections: Magnum uses standard 4pin molex connections to two PCI Express connections for SLI Technology.
4. Voltage Activity Lights: informs you which voltages are being utilized.
5. ATX 2.0 Motherboard Power: connect either ATX 1.0 or ATX 2.0 using the 24pin or 20pin adapter.
6. Air Ventilation: allows ample air flow for power supply cooling and silencing.

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## SECTION 3: LCD DISPLAY


# MAGNUM<sup>®</sup>



### PART DESCRIPTION:

1. Alarm Display: alerts user of high internal heat within the power supply.
2. Wattage Meter: displays a close approximate of wattage being used.
3. Internal Temperature Display: informs the user of internal temperature within the power supply.
4. "12" Voltage Display: displays accurate voltage consumption on the 12V line.

NOTE: wattage is calculated based on the current amps and voltages being emitted at present time. Wattage will increase and decrease depending on the nature of current software use, and/or hardware.

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(2) Floppy Power



(2) PCI-Express



(6) 4 Pin Molex



(1) P4 Plug



(1) 20 <-> 24Pin - ATX Power Cable



(2) SATA Cable

### MODULAR CABLE EXAMPLE:

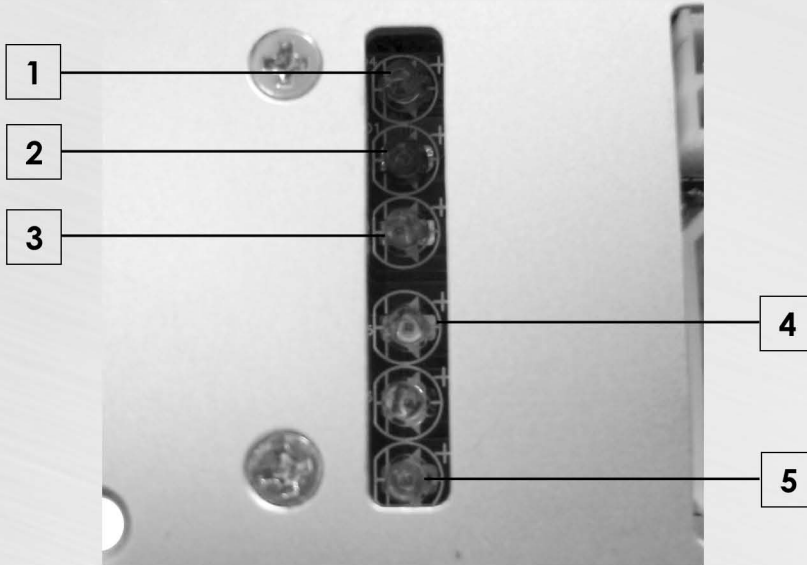


### PART DESCRIPTION:

- **Modular Cable Example:** displays a magnetically shielded cable free from EMI.
- **Floppy Power:** provides floppy component power. Comes with 2 connections.
- **PCI Express Connections:** provides ample full power to PCI-E components. Comes with 2 connections.
- **P4 Plug:** provides power to cpu processor.
- **ATX 2.0 Power:** provides power to motherboard for both ATX and BTX designs.
- **SATA Power:** provides power to SATA hard drives.
- **20 <-> 24 Pin Adapter:** connects directly to 24pin and adapts to a standard ATX 20pin connection.

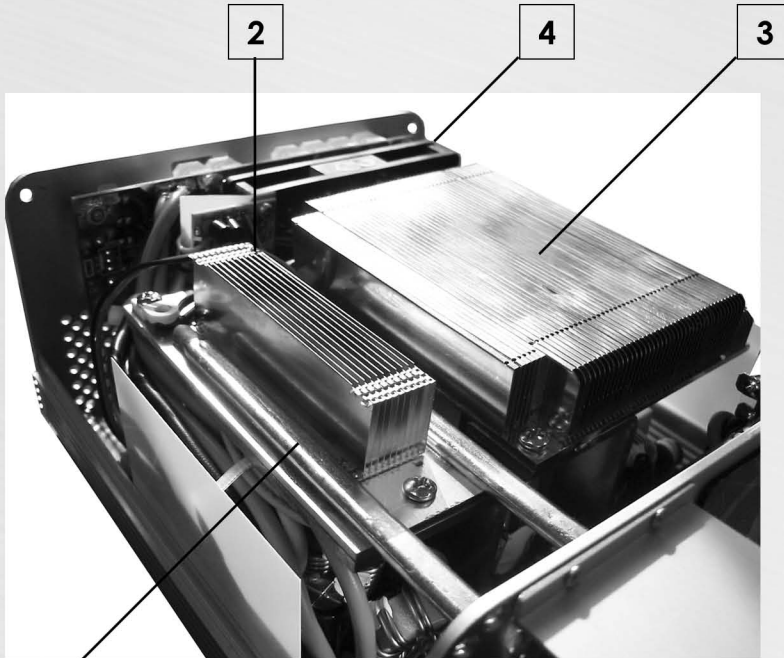
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## SECTION 5: VOLTAGE ACTIVITY LIGHTS



### PART DESCRIPTION:

1. +12V LED: displays when components are using this voltage line.
2. +5V LED: displays when components are using this voltage line.
3. +3.3V LED: displays when components are using this voltage line.
4. Voltage Maintenance LED: displays part of the voltage meter scale. Part 1 of 3
5. Voltage Maintenance LED: displays part of the voltage meter scale. Part 2 of 3
6. Voltage Maintenance LED: displays part of the voltage meter scale. Part 3 of 3



### PART DESCRIPTION:

1. Copper Heatpipes: absorbs heat from the heatsinks and distributes it to the external radiator ventilation.

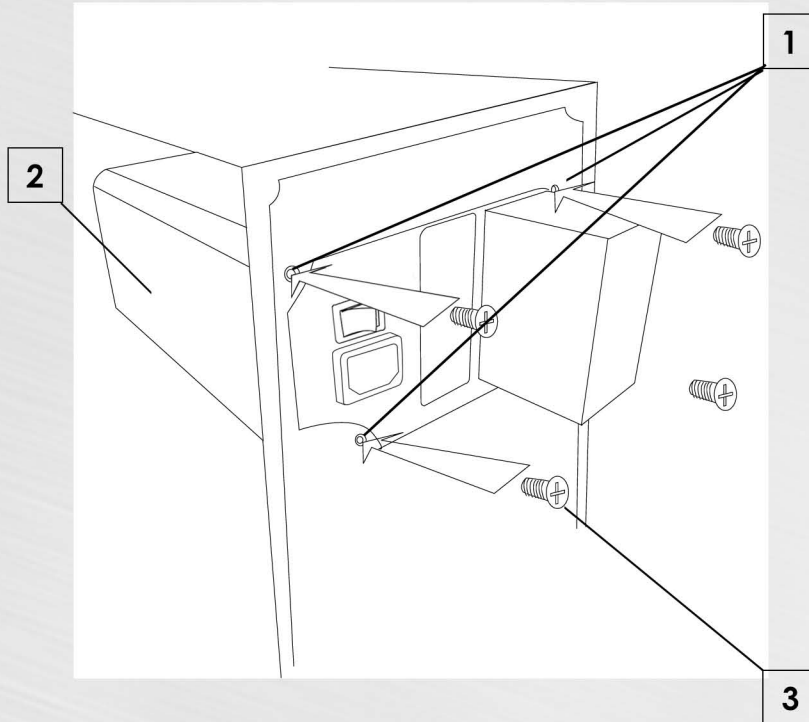
2. Copper Heatsink, Part 1: provides even distributorship of heat throughout the smaller half of the heatsink.

3. Copper Heatsink, Part 2: provides a large heatsink to be evenly distributed in front of the 80mm fan.

4. 80mm Fan: provides the airflow to the large copper heatsink and is thermally controlled . Audio decibals may vary on the current system setup and scurrent load of the computer system.

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## SECTION 7: INSTALLATION OF PSU ONTO CHASSIS




### STEP DESCRIPTION:

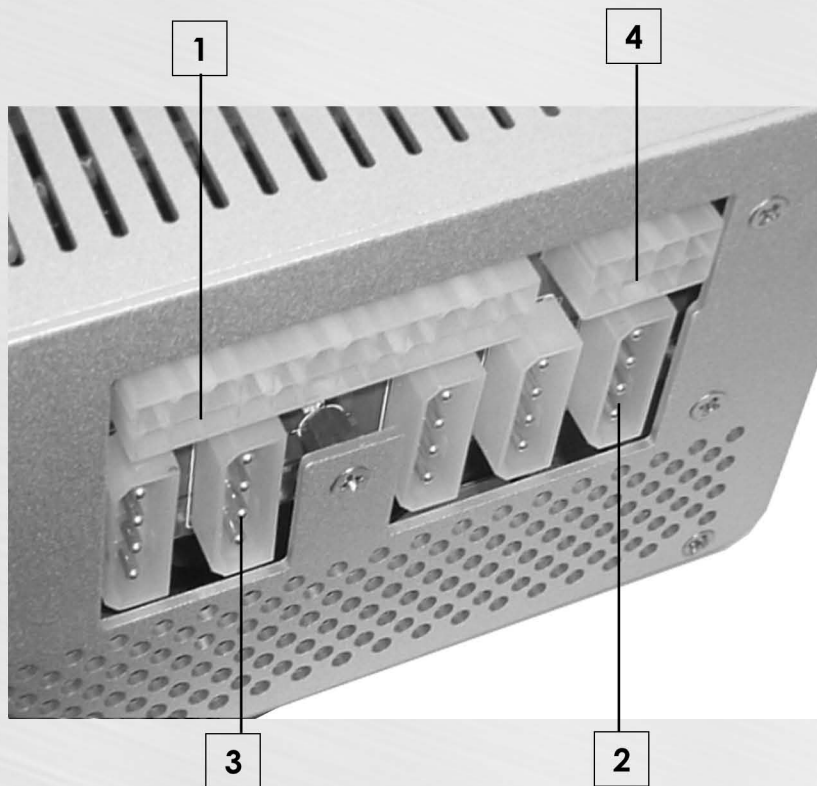
1. Match up the 4 psu screw holes up to the computer chassis or case.
2. With one hand holding the psu onto the chassis begin to match up the screw onto the psu.
3. After connecting the screws onto the psu, be sure that each screw is on tightly.
4. Be sure to check the US/EURO voltage switch to the standard US power 110V.

Note: you do not need to set the LCD display to function, it is pre-programmed and functions on its own when the computer is turned on.

### LEGEND:

- 1 Screw Holes
- 2 Power Supply
- 3 Mounting Screws

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### STEP DESCRIPTION:

1. Connect the ATX power connection to the main 20 <-> 24pin adapter of the psu and onto the motherboard.
2. Connect the CPU power connection to the motherboard.
3. Connect the 4pin Molex connections to the appropriate amount of peripherals on within your computer system.
4. If necessary, connect the PCI Express connections to the psu and onto your graphics pci-e card.

### LEGEND:

- 1 20 <-> 24Pin ATX Power Connector
- 2 4Pin Molex Connectors
- 3 PCI Express Connections
- 4 P4 Plug Connector

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## SECTION 9: SPECIFICATIONS, PART 1

### 1-1. Input Voltage

The power supply shall be operated at universal input voltage defined in the following table.

Input Voltage	MIN	NOM	MAX
Voltage	100	115-230	253

### 1-2. Frequency

The input frequency range is from 50Hz to 60Hz.

### 1-3. Inrush Current

The max inrush current is 80A for 115/230VAC.

#### 1-3-1. Cold Start

Conditions	Limits
115/230VAC, full load. 25°C ambient.	No component over stress or damage should occur to the power supply. Input fuse shall not blow.

#### 1-3-2. Warm Start

Conditions	Limits
Turn off at 132/264VAC full load for 1 sec, then turn on at the peak of the input voltage cycle at 25°C ambient.	No component over stress or damage should occur to the power supply. Input fuse shall not blow.



### 1-4 AC Input Current

AC Input	MAX	Units
115V	10	AMPS
230V	5	AMPS

### 1-5. Efficiency

The power supply efficiency shall not be less than 68% at the maximum load of sec. 2.2 and 115/230Vac input voltage.


## 2. Output Requirements

### 2-1. Output Regulations

Output Voltage	Range	MIN	Nominal	MAX	Units
+5V	±5%	+4.75	+5.00	+5.25	Volts
+12V1	±5%	+11.40	+12.00	+12.60	Volts
+12V2	±5%	+11.40	+12.00	+12.60	Volts
-12V	±10%	-10.80	-12.00	-13.20	Volts
+3.3V	±5%	+3.14	+3.30	+3.47	Volts
+5Vsb	±5%	+4.75	+5.50	+5.25	Volts

Note:

- 1) The chart voltage range should also include ripple and noise.
- 2) The output voltage should be measured at the terminals of the output connector.
- 3) The -5V rail is optional.

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## SECTION 9: SPECIFICATIONS, PART 5

### 2-2. DC Load Requirements

Output Voltage	MIN	NOM	MAX	Units
+5V	1.0	15	30	AMPS
+12V1	1.0	7.5	15	AMPS
+12V2	1.0	7.5	15	AMPS
-12V	0.0	0.25	0.5	AMPS
+3.3V	0.5	12.5	25	AMPS
+5Vsb	0.0	1	2	AMPS

Note:

- 1) The maximum continuous total DC output power shall not exceed 400 Watts.
- 2) The maximum continuous combined load on +5V and +3.3V outputs shall not exceed 150 Watts.
- 3) The maximum continuous combined load on +5V, +3.3V and +12.V1, +12V2 outputs shall not exceed 385 Watts.

### 2-3 Cross Regulation

The DC loads shall remain within the ranges specified in 2-2 DC Load Requirements and the DC output voltages also shall remain within the regulation ranges specified in 2-1 Output Regulation when measured at the load end of the output connectors.

	+5V	+3.3V	+12V1	+12V2	+12V	+5VSB
1	1	25	15	15	0.5	2
2	30	1	15	15	0.5	2
3	15	15	1	15	0.5	2
4	15	15	15	1	0.5	2

## 2-4. +5V Standby Voltage

The +5Vsb is on whenever the AC power is present.

## 2-5. DC Output Voltage Ripple and Noise

Output Voltage	Ripple & Noise Max	Units
+5V	50	mV
+12V1	120	mV
+12V2	120	mV
-12V	120	mV
+3.3V	50	mV
+5Vsb	100	mV

Note:

1) The measurements should be made by crossing a 10uF/ electrolytic and a 0.1uF ceramic disk capacitors at each output with measuring bandwidth from DC<sub>o</sub> to 20 MHz. If ambient temperature is under 20 C or over 30 C, the AC input should be nominal input.

## 2-6. Total Output Power

MAX	Units
400	Watts

## 2-7. Remote ON/OFF Control

The power supply outputs shall be enabled with an active-low TTL signal.

When TTL signal is low, the DC outputs are to be enabled.

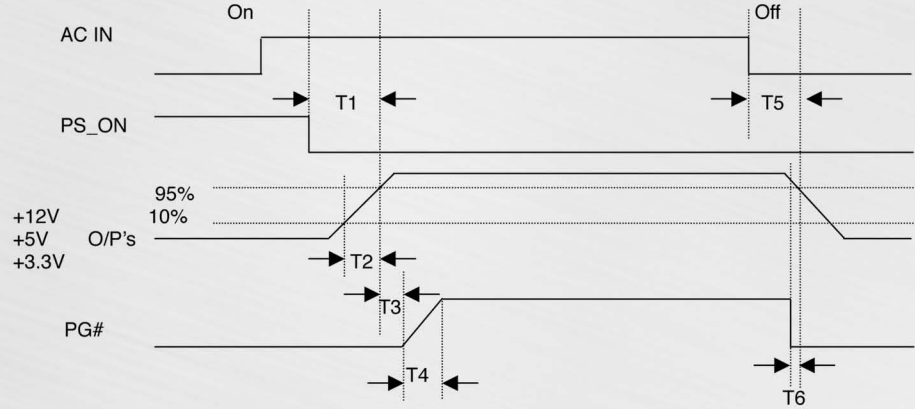
When TTL signal is high or open circuited, the DC outputs are to be disabled.

Electronic means or a mechanical switch may activate the TTL signal.

After the TTL signal is active high, must wait for 3 seconds before active low again.

## SECTION 9: SPECIFICATIONS, PART 4

### 2-8 Power Sequence



### 2-9 Power On Time (T1)

MAX	Units
500	ms

### 2-10 Rise Time (T2)

MAX	Units
20	ms

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### 2-11 Power Good Delay Time (T3)

MIN.	MAX.	Units
100	500	ms

Note: The test environment is 25°C condition at nominal output.

### 2-12 Power Good Rise Time (T4)

MAX.	Units
10	ms

### 2-13 Hold Up Time (T5)

MIN.	Units
17	ms

Note: The test environment is 25°C & full load condition at nominal output.



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### 1. Protections

#### 1-1. Over Voltage Protection

When the DC outputs (+5V, +12V1,+12V2, +3.3V) have over voltage condition, the power supply shall provide latch mode over voltage protection.

DC Output	MAX.	Unit
+12V1,+12V2	15.6	V
+5V	7.0	V
+3.3V	4.3	V

#### 1-2. Short Circuit Protection

A short circuit placed to ground shall cause no damage or power supply shall be shutdown. (The contact resistance is 0.05 ohm when the outputs short circuit.)

#### 1-3. Protection Reset

When the power supply latches into shutdown condition due to a fault on an+5V,+3.3V,+12V1,+12V2 output (OVP, UVP), the protection shall reset after the fault has been removed, use remote on/off control or recycle the AC power again for a typical of 3 seconds.

#### 1-4. Over Shoot

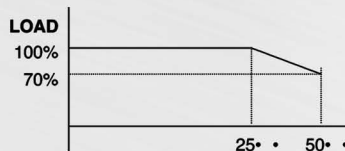
Any output overshoot at turn on shall be less than 15% of the nominal output value (with resistive load) as described in sec. 2.1.

## 2. Environment

### 2-1. Operation/Storage Temperature Range

Operation : 0°C to 50°C(nominal input)

Storage : -40°C to 70°C



### 2-2. Humidity (none condensing)

Operation: 20% to 85% RH(nominal input)

Storage : 10% to 95% RH

## 3. Safety

### 3-1. UL60950-1

### 3-2. TUV EN 60950


### 3-3. CB

## 4. EMI REQUIREMENTS

### 4-1. CE

### 4-2. FCC part 15 sub part J class B at system load

### 4-3. CISPR 22 CLASS B

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## SECTION 10: PROTECTION, PART 3

### 5. Dielectric Voltage Withstand (HI-POT)

The power supply shall withstand for 3 seconds without breakdown the application of an 1800Vac-supply voltage applied between both input line and chassis (10mA AC Cutoff current). Isolating transformers shall similarly withstand 4242Vdc applied between both primary and secondary windings for a minimum of one minute.

### 6. PFC

Active Power Factor Correction, complies with EN 61000-3-2: 1995+A1+A2:1998, Class D.

### 7. Electrostatic Discharge (ESD)

Comply with IEC 61000-4-2.

### 8. EFT/ Burst

Comply with IEC 61000-4-4.

### 9. Surge


Comply with IEC 61000-4-5.

### 10. Burn-In

Applying 115 Vac  $\pm$  10 % or 230 Vac  $\pm$  10% input voltage and maximum load (80%) for this product in 45  $\pm$  5°C chamber.

### 11. M.T.B.F.

The power supply shall have a minimum mean time between failure greater than 100,000 hours at continuous operation of 100% load and an ambient temperature of 25°C.

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### Troubleshooting:

*If the system has no responses when user turns on the power supply, then please follow the following instructions to check the problem.*

- A. Ensure the power cord is connected tightly.
- B. Make sure that your 110 / 220 voltage is switch to the appropriate setting: U.S. is 110V, Europe is 220V.
- C. Ensure all the connectors are connected in the right direction
- D. Check whether there is any short-circuit problem or defective peripherals by unhooking each peripheral one at a time.
- E. Ensure the on/off switch is turned to the ON position.
- F. If one of the above-mentioned have occurred, please wait for 10~30 seconds to release the power supply protect condition, then turn on the power supply again.
- G. If the power supply still can not work, please send it back to your vendor or supplier for further analyzing and repairing.

### Warning:

- Please do not open the power cover; it will cause serious personal damage.

### Note:


- Warranty void if the serial number sticker broken or removed.
- If you have any technical problems, please feel free to contact us:

Tel: 626-581-9887 ext. 160

Email: support@mgecompany.com

Code Certification:



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## SECTION 12: RETURN POLICY, PART 1

### RETURN POLICY:

- MGE warrants its products to be free from defects in manufacturing and workmanship under normal use for a (1) year time frame. Any MGE product that fails will be exchanged or repaired with the same or equivalent item.
- Returns or exchanges must first be directed to the place of purchase. If warranty period has expired with Dealer, MGE Company will handle these returns or exchanges.
- The warranty period is defined by the manufacturing date. If you find a big time-gap between manufacturing date and purchase date, you will have to ask your dealer to compensate for the time difference.
- MGE Company will NOT accept any requests to make "trade-ups" to any newer models.
- An RMA (Return Merchandise Authorization) Request must be submitted along with the product.
- You can obtain an RMA number by going to the General Requests section of the Support page and filling out the necessary information. Note: RMA number is only valid for 10 days after issuance date.
- You will then be issued an RMA number which can be used to submit, then later check on the status of your request. \*\*\*It is mandatory to obtain an RMA Number prior to returning any merchandise.\*\*\*
- You will receive a replacement only under the following conditions:
  - 1). That the merchandise purchased was through an MGE Company authorized distributor.
  - 2). That the product is accompanied by a Sales receipt, as "Proof of Purchase" clearly showing purchase date and model.
  - 3). You submit a valid RMA number clearly visible on the product being returned.
  - 4). That the Replacement is NOT caused by Physical Damage to the product.
- Upon receipt of your defective unit, a replacement part will be returned back to you. However, the warranty extension on the new replacement unit will only be thirty (30) days.
- MGE Company will only be responsible for the repair of the product itself, and not to any other component that is part of your system. For other defective components, you will be responsible to contact each individual manufacturer and request the necessary replacements from them.
- It is recommended yet not mandatory to use a trustworthy carrier who offers tracking services. It is also recommended yet not mandatory to purchase insurance on the product, this will limit the risk of any loss during delivery to MGE Company warehouse.



### EXCHANGES

If it has been determined that an exchange in product is necessary, and the proper RMA procedures have been executed, the exchanged merchandise will be delivered within (30) days after receipt in MGE Company warehouse. MGE will inspect and test product for defects in manufacturing, and exchange will be processed contingent upon test results.

### SHORTAGES

MGE will try to send completed orders at all times. There may be instances where an oversight might occur. If this should happen, it is your responsibility to notify MGE by telephone within 5 days of the receiving date, advising of the shortage in your order. All shortages will be re-sent immediately. Allow time for Ground U.P.S. to deliver.

### DAMAGES


- If product(s) upon arrival are found to have visible physical damage, do not accept from delivering courier and report immediately to the Customer Service Department at MGE by calling 626-581-9887 extension 100.
- If after receiving package you discover product(s) are defective, do not attempt to use the product(s). Proceed to return the merchandise as directed and expect re-delivery of the product. \*\*\*EXCLUDES PHYSICAL DAMAGE\*\*\*
- Only after inspection of merchandise at MGE Company, conducted by Certified Technicians, it is determined that the product was damaged due to misuse or abuse, the warranty shall be voided.
- Any damage inflicted upon the product(s) which is not a manufacturer defect, will not be covered by the warranty.

### DELIVERY

Deliveries are made via U.P.S. Ground services, which usually take between 5-7 business days for delivery. Expedited delivery options are available at additional costs.

### LIMITATION OF LIABILITY

Any liability for consequential and incidental damages is expressly disclaimed. MGE's liability in all events is limited to, and shall not exceed the purchased price.

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## SECTION 12: RETURN POLICY, PART 3

### RETURNS :

- If you are dissatisfied with any MGE Company product(s) purchases you must return to the place of purchase for either a full refund or exchange of replacement. Only after the warranty time period has expired with the Dealer, will MGE Company assist you with any returns.
- All returns must be accompanied by and RMA. You can obtain an RMA number by going to the General Requests section of the Support page and filling out the necessary information.


### SHIPPING CHARGES:

- Sender will be responsible for ALL shipping costs to MGE Company warehouse.
- MGE Company will pay for shipping costs incurred for sending the replacements to the customer.
- It is recommended yet not mandatory to use a trustworthy carrier who offers tracking services. It is also recommended yet not mandatory to purchase insurance on the product, this will limit the risk of any loss during delivery to MGE Company warehouse.
- Replacement will be returned using the same shipping services as they were originally sent, unless expedited services are paid for by sender.
- If product(s) are returned for non-acceptance of delivery, the sender will be charged shipping costs, plus the 15% restocking fee.

### PROCEDURE FOR RETURNING PRODUCT(S):

1. Obtain RMA number
2. Send a copy of the original Invoice.
3. Pack the defective product(s) and send to:  
MGE Company-RMA Dept.  
18235 Valley Blvd.  
City of Industry, California 91744

4. Be sure to give at least 30 days for replacement to be returned.  
Note: you can check RMA Status by logging to [www.mgecompany.com](http://www.mgecompany.com)


 **WARNING!** Once power supply is opened and/or tampered with in any way, MGE Company will not be held responsible for any sort of damages electronically or otherwise. Once power supply is opened or tampered with in any way, all and any warranty will be void.



### **COMPANY DISCLAIMER:**

MGE Company reserves the right to adjust prices and information for all manufactured and advertised products. Such changes may occur due to product discontinuation, fluctuating market conditions, or typographical errors. MGE Company will to its best ability try to avoid printing any misleading or erroneous information. MGE Company will at its sole discretion reserve the right to refuse service or conduct business with any customer or partner if at any moment MGE Company deems any actions inappropriate.

**WARRANTY:** THESE WARRANTIES REPLACE ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MGE DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES SO THIS LIMITATION MAY NOT APPLY TO YOU. ALL EXPRESSED AND IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD, SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THIS LIMITATION MAY NOT APPLY TO YOU. LIMITATIONS OF LIABILITY MGE'S RESPONSIBILITY UNDER THIS, OR ANY OTHER WARRANTY, IMPLIED OR EXPRESSED, IS LIMITED TO REPAIR, REPLACEMENT OR REFUND, AS SET FORTH ABOVE. THESE REMEDIES ARE THE SOLE AND EXCLUSIVE REMEDIES FOR ANY BREACH OF WARRANTY. MGE IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING, REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH A SYSTEM CONTAINING YOUR PRODUCT. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

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## SECTION 13: WARRANTY, PART 2

# MAGNUM<sup>®</sup>

EXTENT OF LIMITED WARRANTY MGE DOES NOT WARRANT THAT YOUR PRODUCT WILL BE FREE FROM DESIGN DEFECTS OR ERRORS KNOWN AS "ERRATA." CURRENT CHARACTERIZED ERRATA ARE AVAILABLE UPON REQUEST. THIS LIMITED WARRANTY DOES NOT COVER ANY COSTS RELATING TO REMOVAL OR REPLACEMENT OF ANY PART THAT IS SOLDERED OR OTHERWISE AFFIXED TO YOUR SYSTEM'S MOTHERBOARD. THIS LIMITED WARRANTY DOES NOT COVER DAMAGES DUE TO EXTERNAL CAUSES, INCLUDING ACCIDENT, PROBLEMS WITH ELECTRICAL POWER, USAGE NOT IN ACCORDANCE WITH PRODUCT INSTRUCTIONS, MISUSE, NEGLIGENCE, ALTERATION, REPAIR, IMPROPER INSTALLATION, OR IMPROPER TESTING. NOR IS MGE HELD LIABLE FOR ANY BODILY DAMAGE THAT MAY RESULT DURING THE INSTALLATION, MAINTENANCE, REPAIR, OR IS OTHERWISE ASSOCIATED WITH THIS PRODUCT, MGE IS FREE FROM ANY LEGAL ACTIONS THAT MAY RESULT IN DEATH, PAIN AND ANGUISH, OR ANY OTHER FORM OF PERSONAL DAMAGE THAT MAY OCCUR. BY PURCHASING THIS PRODUCT YOU THE BUYER AGREE TO THIS WARRANTY AND ITS TERMS SET WITHIN ITS EXPRESSED AND IMPLIED LIMITED WARRANTY. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

PLEASE NOTE: WARRANTY MAY CHANGE AT ANYTIME. PLEASE CONSULT OUR WEBSITE FOR ANY CURRENT UPDATES ON THESE CHANGES. MGE COMPANY IS NOT RESPONSIBLE FOR NOTIFYING THE USER OF ANY CHANGES TO THE WARRANTY.



18235 Valley Blvd. City of Industry, CA. 91744

Ph: 626.581.9887 Fax: 626.581.2253

[www.mgecompany.com](http://www.mgecompany.com) - [www.mgeinnovation.com](http://www.mgeinnovation.com) - [www.xgbox.com](http://www.xgbox.com)



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# XG<sup>®</sup> MAGNUM<sup>®</sup>

## INSTALLATION MANUAL V1.0

MGE Company  
North American Office  
18235 Valley Blvd., City of Industry, CA 91744  
Tel: 626-581-9887 Fax: 626-581-2253  
[www.xgbox.com](http://www.xgbox.com) [www.mgecompany.com](http://www.mgecompany.com)  
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