

# Certificate of Conformance

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Product Names: (1) Super Spot Mark III  
(2) Super Spot MAX  
(3) Super Spot MAX HP

Model Numbers: (1) VSM3001  
(2) VSM3003

Applicant: Lesco Lightwave Energy Systems Company, Inc.  
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Torrance, California 90505 USA  
Telephone: 310.784.2930  
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Pulver Laboratories Control Number: 5340X

## **Pulver Laboratories Inc. (PLI) Certification**

### **Equipment Categories**

- 1) Industrial, Scientific, and Medical Equipment
- 2) Measurement, Control, and Laboratory Equipment

### **European Union Declaration of Conformity**

Pulver Laboratories Inc. assessed a sample of this Equipment Under Test against the Essential Health and Safety Requirements of the Machinery Directive. Based on conformity with the Machinery Directive, the Equipment Under Test is deemed in compliance with the **Machinery Directive (89/392/EEC) and the Council Directives amending the Machinery Directive (91/368/EEC and 93/44/EEC)**. In addition, the Equipment Under Test complies with the requirements of the **Low Voltage Directive (73/23/EEC) and the EMC Directive (89/336/EEC)**.

The Pulver Laboratories Product Certification Label appearing on the above models indicates conformance to the Electromagnetic Emission, Electromagnetic Compatibility, and Product Safety Standards and criteria listed in this Certificate of Conformance.

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## **Tested and evaluated to the following standards with resulting Verifications:**

### **Electromagnetic Emission Standards and Jurisdictional Organizations**

#### **Federal Communications Commission (FCC, USA)**

Category Classification Class A - Commercial and Industrial

- Federal Communications Commission Rules and Regulations located in the Code of Federal Regulations, 47 CFR, Part 2 entitled Frequency Allocations and Radio Treaty Matters; General Rules and Regulations; and Part 15 entitled Radio Frequency Devices, 12 July 2004 Edition.
- American National Standards Institute standard number C63.4-2001 entitled Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

#### **Industry Canada (ICAN)**

Category Classification Class A - Commercial and Industrial

- Industry Canada Interference-Causing Equipment Standard ICES-003, Issue 3, 22 Nov 97, entitled "Interference-Causing Equipment for Digital Apparatus".
- Industry Canada Radio Interference Regulation Amendment dated 15 September 1988 (Radio Act Registration SOR / 88-475).
- Canadian Standards Association CAN3-C108.3.1-M84 (R2000): Limits and Measurement Methods Of Electromagnetic noise from AC Power Systems.
- Canadian Standards Association (CSA) C108.8-M1983 (R2000): Electromagnetic Emissions for Data Processing Equipment and Electronic Office Machines.

#### **European Community (EC)**

Category Classification Class A - Commercial and Industrial

- EN 55011: 2003. Specification for Limits and methods of measurement of radio disturbance characteristics of industrial, scientific, and medical (ISM) radio-frequency equipment.

### **Electromagnetic Compatibility (EMC) Standards and Jurisdictional Organizations**

#### **Generic Immunity Standards**

- EN50082-2 : Immunity standards: Pertains to (1) power mains signaling equipment, (2) industrial electronic power and control equipment and (3) industrial, scientific and medical equipment designed to generate r-f energy.

#### **Electromagnetic Compatibility (EMC) Standards**

- EN 61000-4-2: 95 (IEC61000-4-2) entitled Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques - Section 2. Electrostatic Discharge Immunity Test Basic EMC Publication.
- EN 61000-4-3: 95 (IEC61000-4-3) entitled Electromagnetic compatibility for industrial-process measurement and control equipment. Part 3: Radiated electromagnetic field.
- EN 61000-4-4: 95 (IEC61000-4-4) entitled Electromagnetic compatibility for industrial-process measurement and control equipment. Part 4: Electrical fast transient requirements.

#### **Product Safety Standards and Jurisdictional Organizations**

- American National Standards Institute / National Fire Protection Agency 70-2002. National Electrical Code.
- American National Standards Institute / National Fire Protection Agency 79-2002 Electrical Standard for Industrial Machinery.
- American National Standards Institute / Underwriters Laboratories Inc. 508-1998 Industrial Control Equipment.
- American National Standards Institute / Underwriters Laboratories Inc. 508C- Power Conversion Equipment. First Edition, 22 December 1993 with revisions to 24 June 1996.

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- EN 60204-1: 1998 entitled Safety of Machinery - Electrical Equipment of Machines: Part 1: General Requirements, published by the European Committee for Electrotechnical Standardization (CENELEC).
- EN 292-2: 1991 entitled Safety of Machinery - Basic concepts, general principles for design: Part 2: Technical principles and specifications published by the European Committee for Electrotechnical Standardization (CENELEC).
- EN 61010-1: 1993 entitled Safety requirements for electrical equipment for measurement, control, and laboratory use, published by the European Committee for Electrotechnical Standardization (CENELEC).

## Referenced Test Standards

- EN50082-1: 1998 entitled Electromagnetic Compatibility – generic immunity standard; Part 1. Residential, commercial, and light industry.

When manufactured in accordance with PULVER LABORATORIES Evaluation Report Numbers Q534001W.DWG, Q534002W.DWG, Q534003W.DWG, Q534004W.DWG, and Q534005W.DWG, Q534006W.DWG, Q534007W.DWG, Q534017W.DWG, Q534018W.DWG, and Q534019W.DWG the models conform to the Electromagnetic Emission, Electromagnetic Compatibility, and Product Safety Standards listed in this Certificate of Conformance for at least the following countries:

**100 VAC nominal mains** – Japan.

**115 / 120 VAC nominal mains** - Bahamas, Brazil, Canada, Columbia, Costa Rica, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, Panama, Philippines, Taiwan, United States of America, Venezuela, Virgin Islands.

**220 / 240 / 250 VAC nominal mains** - Argentina, Australia, Austria, Bahamas, Belgium, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Denmark, Dominican Republic, Ecuador, Egypt, Finland, France, Germany, Greece, Guatemala, Haiti, Honduras, Hong Kong, Iceland, India, Indonesia, Ireland, Israel, Italy, Jamaica, Japan, Kuwait, Luxembourg, Malaysia, Netherlands, New Zealand, Nicaragua, Norway, Pakistan, Panama, Paraguay, People's Republic of China, Peru, Philippines, Portugal, Singapore, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Syria, Taiwan, Thailand, Turkey, United Kingdom, United States of America, Uruguay, Venezuela, Virgin Islands.

To assure continued Product Safety conformance, PLI evaluates newly manufactured products at the facilities of Lesco Lightwave Energy Systems Company, Inc. every three months. For continued Electromagnetic Emission and Electromagnetic Compatibility conformance, PLI evaluates products every six months. This Follow Up Service exists whenever the PLI Product Certification Label appears on the product.

If the Pulver Laboratories Product Certification Label is not on the product, the PLI Follow-Up Service to evaluate manufactured products may not be in place; and, therefore, this Certificate of Conformance issued by PLI shows that the one product evaluated met the standards. It does not indicate all manufactured products meet the standards unless the Certification Label is on the products and Follow-Up Service exists for the manufacturing of the product.

Date: 14 Jan 2005

Pulver Laboratories Inc

/Lee J. Pulver/

Lee J. Pulver, NCE  
President

