









VIVA Innovation.

- 1999 Mini Twist 13W
- 2002 Pin Based Ballasted Socket
- 2002 Line Voltage Socket
- 2004 Pin Based integrated CFL
- 2005 Low Profile Spiral Lamps
- **2005** Low Profile Pin Base integrated CFS
- **2006** Integrated Circline Systems
- 2007 Two wire Dimming Solutions











Energy Star

Line-Voltage Socket Design History

In the event we don't know or can't remember, The LVS GU24 design and evolution history can be viewed at:

http://www.lrc.rpi.edu/programs/lightingTransformation/lineVoltage/index.asp

Refer to the Final Version of Energy Star Specification, Residential Light Fixtures Version 4.0, January 10, 2005, page 30: "Line Voltage Socket Standardization"





Solutions for Title 24



The California Energy Commission 2005 Building Energy Efficiency Standards (Title 24) went into effect October 2005.

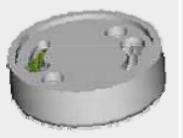
The majority of permanently installed lighting fixtures for newly built homes and ones to be remodeled must be high efficiency.

Fixtures with screw based sockets will not be considered as high efficiency fixtures. All high efficiency fixtures 13W or higher must use electronic ballasts.

For more information: www.energy.ca.gov/title24/











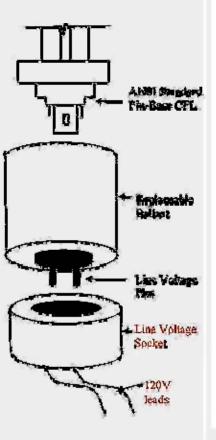
The Line Voltage Socket

- New additional Designs Currently Available
- Capable of mounting in all categories of Lighting
- Versatile positioning with enhanced light output
- Engineered to support decorative components
- Standard wiring procedures to conform with UL
- Economic solution for inventory & manufacturing
- Convenient ballast replacement
- Meeting all Certification and Agency requirements
- Anticipate ANSI acceptance spring of 2006



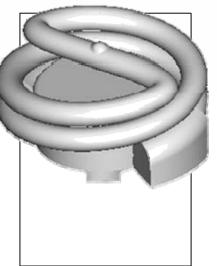


The Concept



Pin Base GU24 Integrated Socket Ballast

- The Pin Base systems are widely accepted
- 1 million Socket Ballast systems applied in 2005
- 2006 is anticipating doubling the 2005 systems
- Designers are requesting new lamp configurations
- New Pin Base products are being designed
- Existing products redesigned to accept Pin Base
- Manufacturers support the use of Pin Base (GU24)
- GU24 is becoming a basic component in the industry









GU24 (LVS) Socket Ballast Solutions for all applications

Available Wattage range from 10 to 42



Medium Profile

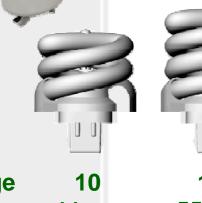


Traditional





Lamp Solutions for all GU24 Socket Ballast applications Available Wattage range from 10 to 42 watts Super compact as compared to current lamps All Kelvin Ranges available





Wattage10Length44mmDiameter50mm

13 55mm 50mm



18 66mm 50mm



26 71mm 70mm



32

82mm

70mm



42 93mm 70mm



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New Lamps for Integrated Socket Ballast

- Design applications demanded new configurations of CFL lamps
- Lamps that maintained all the required specifications
- Lamps that complemented the integrated Socket Ballast Systems

13 watt MOL 86mm	18 watt MOL 55mm	26 watt MOL 95mm
Diameter 75mm	Diameter 75mm	Diameter 75mm

- New lamps are now available for GU24 Socket Ballast
- Wattage range from 10 to 100 watts
- Various diameters available from 50mm to 80mm
- More compact when compared to similar incandescent wattage





GU24 Pin Base Integrated Lamp and Ballast

Integrate the Lamp and Ballast to provide an economical solution for the consumer when purchasing replacement components.

Utilize Universal Pin Base Connection to accept all One Piece integrated lamp and Ballast wattages. 13 watt thru 55 watt

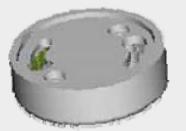
Create a simple solution that provides the consumer easy selection of replacement or wattage upgrades.

Provides easy installation of replacements. Energy Star Version 4.0 Compliant.

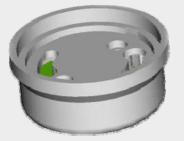












GU24 (LVS) Integrated Lamp & Ballast Solutions

Available in 13 thru 42 watts in all Kelvin Levels **Currently listed on Energy Star Platforms.**



13 watt Diameter MOL 55mm 82mm **75mm** 50mm

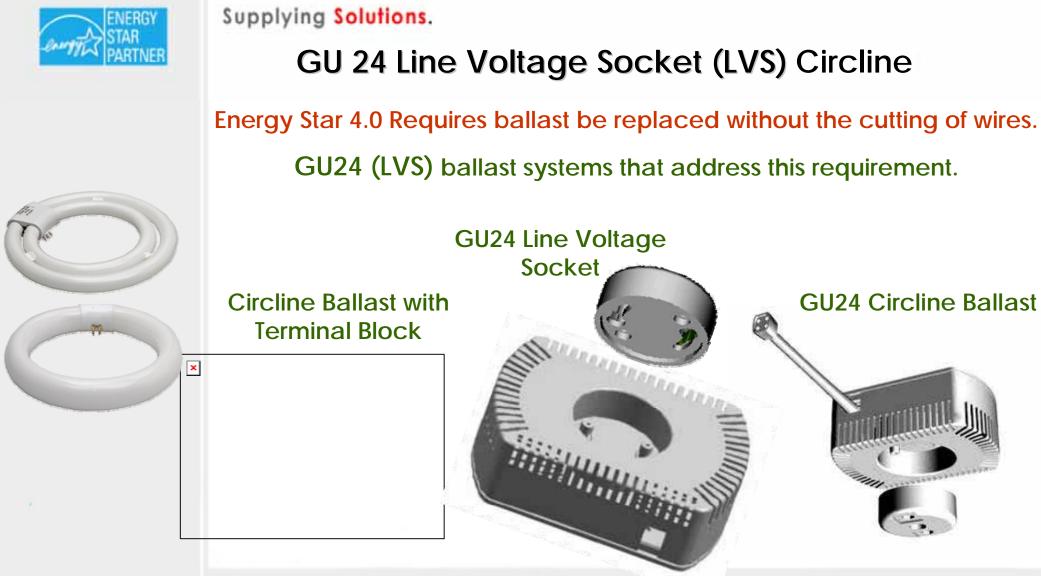


18 watt **Diameter** MOL 55mm 90mm **75mm 55mm**



26 watt Diameter MOL 95mm **75mm**





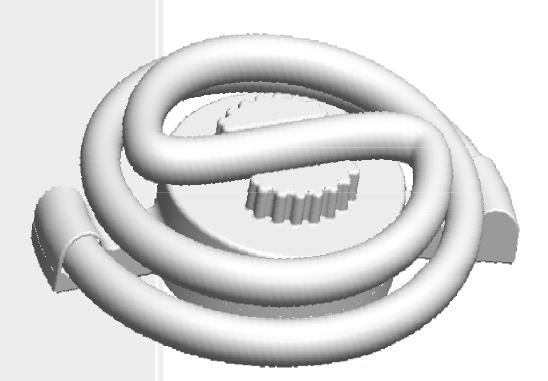
Ballast For T6- 40 watt-70 watt

T9-22 watts to 70 watts.





VIVA Dome Spiral Concept (VDSC) VIVA Dome Spiral System (VDSS)



Full Spiral Lamps for applications were more decorative lamps are desirable and Circline is objectionable

Wattage range from 26 32 42 55 70 85 100





GU24 (LVS) Pin Base has Emerged for all applications

All Solutions are Energy Star Listed











The Dimming Solution

Currently Available:

- Remote 55 and 70 Circline full range dimming.
- On board (4 wire) 55 and 70 full range dimming.
- Development Currently in Testing:
- Two wire 55 and 70 watt Circline dimming pending Test Completion
- Target availability late fall 2006
- Lower wattages undergoing redesign and testing







Industry Associates...

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 - We welcome all your inquires.
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