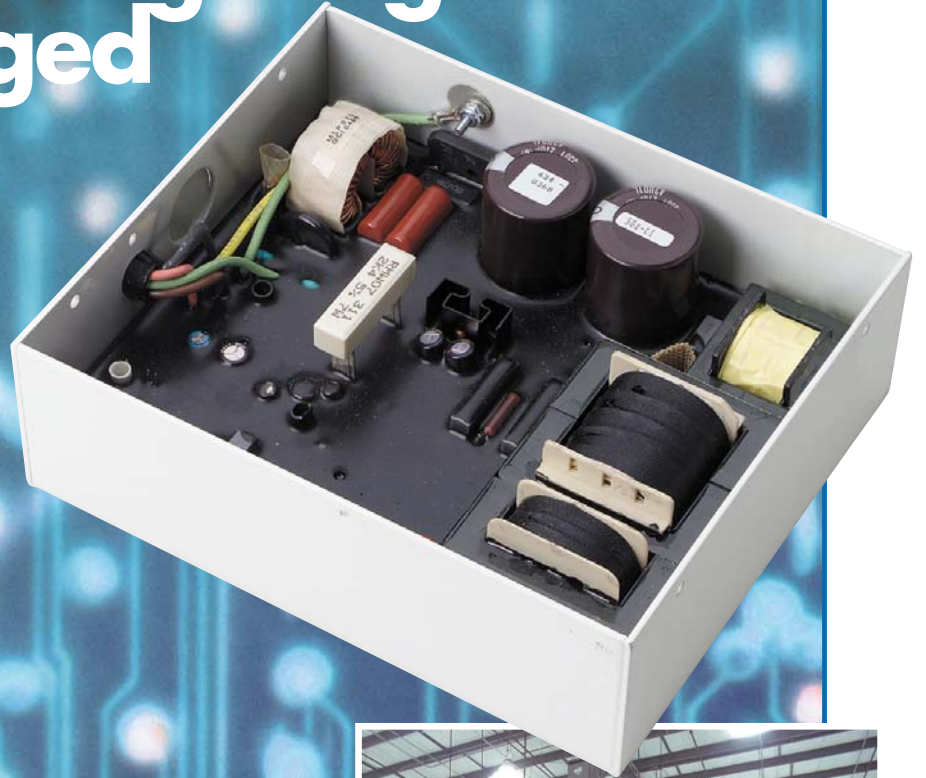


*Bright Ideas, Bold Innovations*

# The Power of Lighting Has Changed



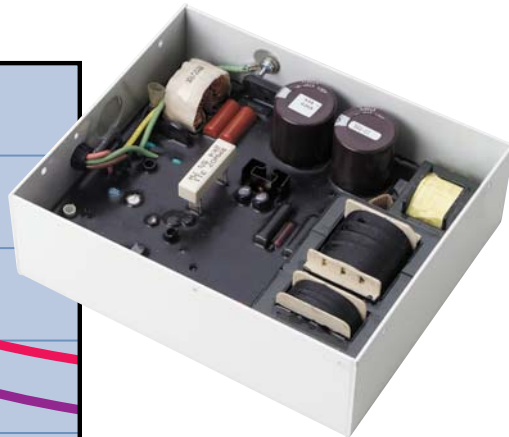
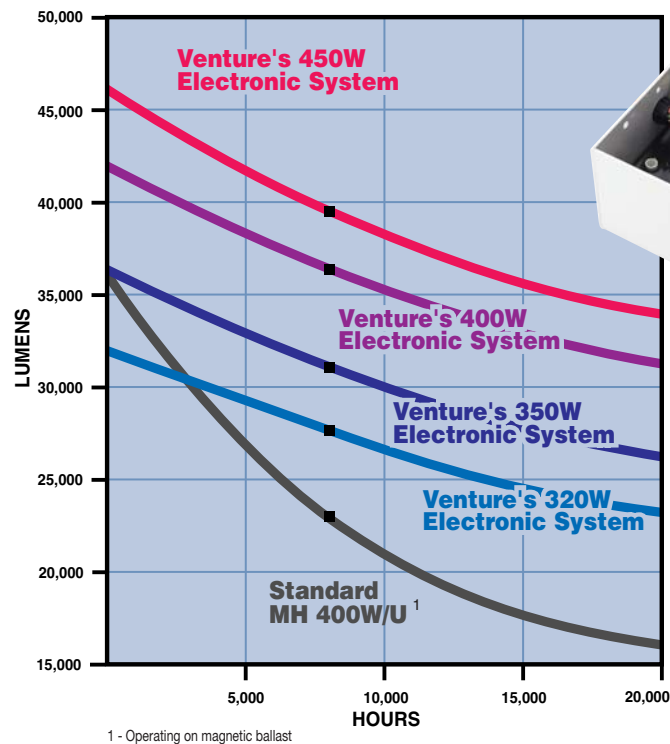
**Venture's Ventronic™ Electronic Ballasts and Controls for Metal Halide HID Lighting**

**From**



**VENTURE  
LIGHTING**

## Lumen Maintenance Curves



## Ventronic™ Electronic Ballast

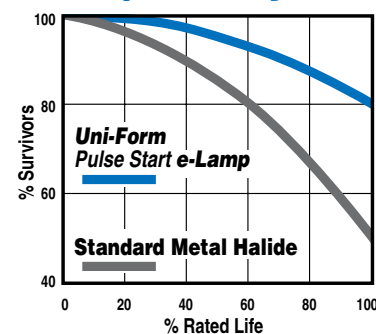
Venture's own high frequency electronic ballast:

- Auto-Voltage input 208-277V (208V, 240V, 277V ±10% ); (50-60Hz AC, DC)
- True-sinusoidal, high-frequency lamp drive
- ± 0.5% lamp power regulation over a 10% change in input voltage
- Improved arc tube stability; Flicker-Free
- Operates in ambient from -20°C to 55°C
- Superior color and lumen maintenance
- Continuous dimming of Venture's e-Lamp (4K) product (From full power down to 35%)
- Operates all other pulse start metal halide lamps - Dimming limited to 50% lamp power (achieved using optional Venture control interface VDM1)
- Keeps lamps lighted over wide range of line voltages
- Suitable for damp location
- Silent operation sound rated A
- 1.0 effective current crest factor (1.4 HF crest factor = 1.0 LF crest factor)
- Ballast Efficiency up to 95%

## Longer Life

- With Venture's Ventronic™ electronic ballasts, 80% of the Venture® lamps will still be operating at end of rated life, a **60% increase in lamp survival** compared to standard metal halide lamps (50% survival)

## Lamp Mortality Curve



## Color Uniformity

- More consistent lamp to lamp color
- Better color at 35% power dimming with Venture's e-Lamp™ electronic pulse start system - Stays white when dimmed, while ceramic metal halide turns green

## Daylight Color Option

- Natural White® systems, providing high CRI (90+) and daylight color temperature (5000°K) and 90% mean lumens (little light loss over the life of the system)

## Venture Lighting® Electronic Controls

### VPM-1 Power Module



- Designed to work with VIM-1 and Venture® HF electronic ballast modules to build a unique lighting system.
- Provides 24V DC and 10V DC voltage to control up to 5 Venture HF electronic ballasts and an occupancy sensor
- Works with occupancy and photo sensors
- 3 year warranty
- A separate 24V DC supply is needed when more than 5 ballasts are to be controlled on one zone

- Works well in both industrial and commercial settings

- 50 electronic ballast's can be controlled from one VDM-1 controller (with 250mA input from separate 24V DC power supply)
- Easily connects to other controllers like photocell and occupancy sensors (application guide available)
- VDM-1 does not provide on/off lighting control to the fixtures
- 1 year warranty

### VDM-1 Dimming Control



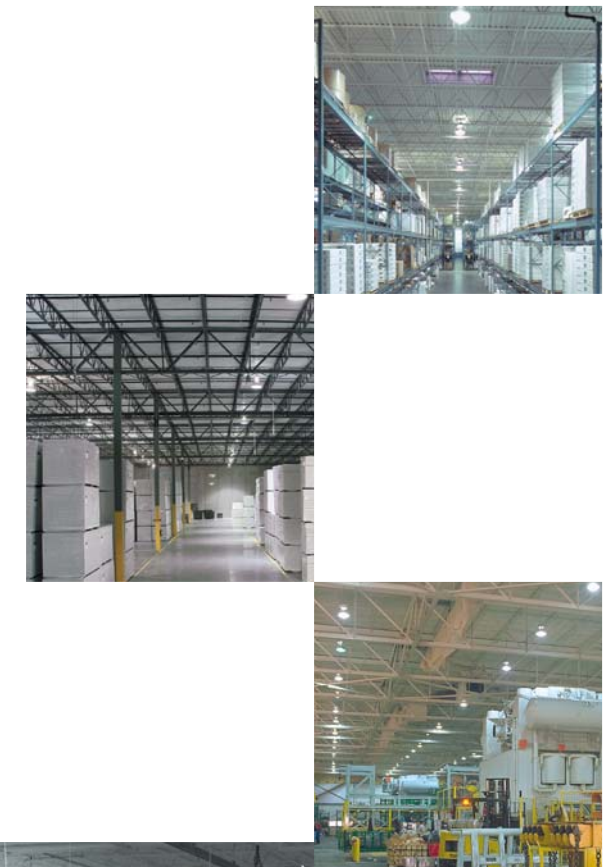
- Used to interface existing 10 to 0VDC Fluorescent system with electronic ballasts
- Interfaces easily to other dimming controllers like photocell and occupancy sensors
- One VIM-1 interface module can control up to 50 Venture electronic ballast's (with 250mA input)
- Designed to work with or without a VDM-1 dimming module to build a unique lighting system
- 3 year warranty

### VIM-1 Interface Module



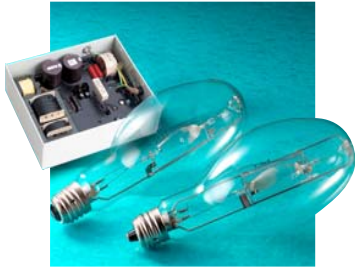
## Dimming Capabilities: Greater Energy Savings

- With Venture's e-Lamp pulse start lamps (4000°K), dim down to 35% lamp power on approved electronic ballasts



# Venture Electronics

ELECTRONIC PULSE START METAL HALIDE LIGHTING SYSTEMS



## Applications

- Highbay Industrial
- Manufacturing Lighting
- Big Box Retail
- Convention Centers
- Warehouse Lighting
- Energy Saving Retrofits

## ELECTRONIC BALLASTS Ventronic™

Wattage	Voltage	Input Voltage Range	Product No.	Input Watts	Maximum Line Current	ANSI	EMI	Safety
320	208-277	188-305	OPE320W	342	342/(.92*Vline)	M154	FCC Part 18	UL 1029
350	208-277	188-305	OPE350W	363	363/(.92*Vline)	M131	FCC Part 18	UL 1029
400	208-277	188-305	OPE400W	413	413/(.92*Vline)	M155	FCC Part 18	UL 1029
450	277	249-305	OPE450W	465	465/(.92*Vline)	M144	FCC Part 18	UL 1029

## ELECTRONIC CONTROLS

Product Description	Input Voltage	Input Current	Output Voltage	Output Current	Required Input for each Ballast	Fig.
VDM-1	20-28 VDC	250mA (max.)*	10VDC	250mA (max.)	5mA***	A
VIM-1	24 VDC**	250mA (max.)*	10VDC	250mA (max.)	5mA****	B
VPM-1	20-28 VDC	250mA (max.)	10VDC	250mA (max.)	5mA***	C

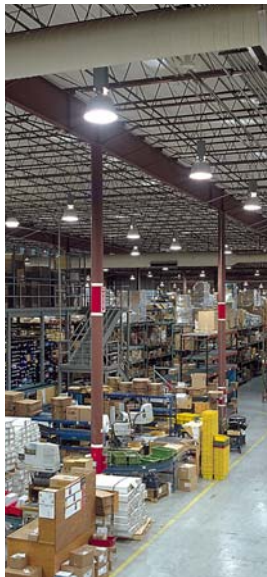
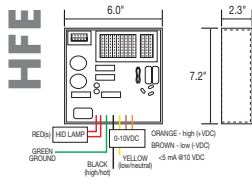
Note: \* to control 50 Venture HF electronic ballasts

\*\* Output: 24VDC / .025A (up to 5 Venture HF Electronic Ballast's can be controlled)

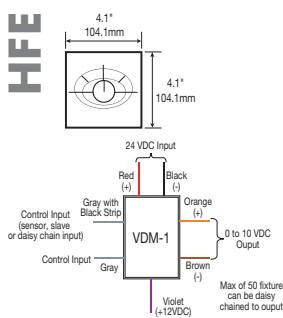
\*\*\* "n" Venture HF ballasts can be controlled by n x 5mA input current

\*\*\*\* "n" HF ballasts can be controlled by n x 5mA input current; 5mA output required to control each ballast

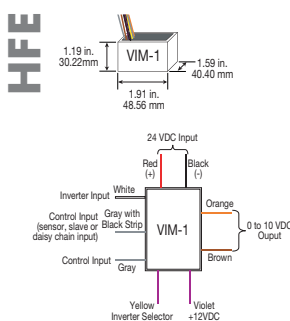
## High Frequency Electronics



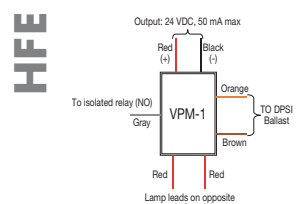
### A Electronic Control



### B Electronic Control



### C Electronic Control



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