

# LS SERIES ELECTRONIC BALLASTS

## 3.3KW TO 60KW

### MODELS AND RATINGS

MODEL	VOLTS Vrms	AMPS Arms	PWR kW
LS200-17	0-200	0-17	3.3
LS300-11	0-300	0-11	
LS450-7	0-450	0-7	
LS600-6	0-600	0-6	
LS900-4	0-900	0-4	
LS1200-3	0-1200	0-3	
LS1450-2	0-1450	0-2	
LS1600-2	0-1600	0-2	
LS200-33	0-200	0-33	6.6
LS300-22	0-300	0-22	
LS450-15	0-450	0-15	
LS600-11	0-600	0-11	
LS900-8	0-900	0-8	
LS1200-6	0-1200	0-6	
LS1450-4	0-1450	0-4	
LS1600-4	0-1600	0-4	
LS600-17	0-600	0-17	10.0
LS900-11	0-900	0-11	
LS1200-8	0-1200	0-8	
LS1450-7	0-1450	0-7	
LS1600-6	0-1600	0-6	
LS600-24	0-600	0-24	15.0
LS900-16.5	0-900	0-16.5	
LS1200-12	0-1200	0-12	
LS1450-10	0-1450	0-10	
LS1600-9	0-1600	0-9	
LS1200-16	0-1200	0-16	20.0
LS1450-14	0-1450	0-14	
LS1600-12	0-1600	0-12	
LS2000-10	0-2000	0-20	
LS1200-20	0-1200	0-20	25.0
LS1450-17	0-1450	0-17	
LS1600-18	0-1600	0-18	
LS2000-12.5	0-2000	0-12.5	
LS1200-24	0-1200	0-24	30.0
LS1450-21	0-1450	0-21	
LS1600-18	0-1600	0-18	
LS2000-15	0-2000	0-15	
LS1600-27	0-1600	0-27	
LS2000-22.5	0-2000	0-22.5	
LS2500-20	0-2500	0-20	
LS3000-15	0-3000	0-15	
LS2000-30	0-2000	0-30	60.0
LS2500-24	0-2500	0-24	
LS3000-20	0-3000	0-20	

### FEATURES

- 400Hz Square-wave ballasts producing 20% more and constant UV radiation
- 44 Models: 3.3kW - 60kW
- Two versions:
  - LSA Series with local and remote control and
  - LSC Series with remote control only
- Control interfaces: analog (PLC) and RS232 digital interface
- Continuous dimming: from 15 -100% of nominal output
- High efficiency, 92% or better, across the dimming range
- Unity current crest factor and no cycle-by-cycle reignition resulting in longer lamp life
- Air cooled – air exhaust in rear of cabinet or water cooled
- 2kV Pulse ignition circuit
- Status monitoring: lamp outage detection, interlock, etc.
- Mechanical contactor, internal fusing
- Smaller size and weight
- High power factor
- CE-marked\*



### SPECIFICATIONS

**Input voltage:** 208/240 Vac, 50-60 Hz, 3-phase;  
380/415 Vac, 50-60 Hz, 3-phase;  
440/480 Vac, 50-60 Hz, 3-phase;  
240 Vac, 50-60 Hz, 1-phase, 3.3 kW only

**Power factor:** greater than 90%

**Inrush current:** less than nominal

**Current control:** 0-100%

**Ambient temperature:** -10°C to 40°C

**Relative humidity:** from 10% to 95% noncondensing

### OPTIONS

Custom output voltage

Hot-Restrike feature

EMI Filter\*

\*For CE-marking an external EMI filter is required

### NOTES

1. Specifications subject to change without notice
2. Other options consult factory

### SIZE MATRIX

PWR (kW)	SIZE (H"xW"xD")	WEIGHT (lbs)
3.3	5¼X19X24	74
6.6	5¼X19X24	97
10.0	5¼X19X24	125
15.0	5¼X19X24	125
20.0	10½X19X24	245
25.0	10½X19X24	245
30.0	10½X19X24	245
45.0	15¾X19X24	365
60.0	38½X22X29	510

# UV ELECTRIC

E-mail: [sales@uvelectric.com](mailto:sales@uvelectric.com)

Phone: (973) 968-5033 / Fax: (973) 270-2458

P.O. Box 3837, Jersey City, NJ 07303

[www.uvelectric.com](http://www.uvelectric.com)

# LS SERIES *COST AND PERFORMANCE* A NEW STANDARD IN UV LAMP BALLASTING

**UV Electric's LS Series** is the most comprehensive high power electronic ballast product line-up offered today on the market. These ballasts power medium pressure UV lamps with a medium frequency, 400Hz square wave to assure stable, acoustic resonance free lamp operation. The underlying technology, a combination of high and medium frequency power processing, improves response, shrinks package size, and reduces cost.

The **LS Series** electronic ballasts are more efficient than comparable electromagnetic ballasts. A significant increase in UV radiation is obtained at nominal output due to the constant, nonpulsating light output. For variable UV output systems, where regulation is required, efficacy improvement over conventional ballasts are much more significant.

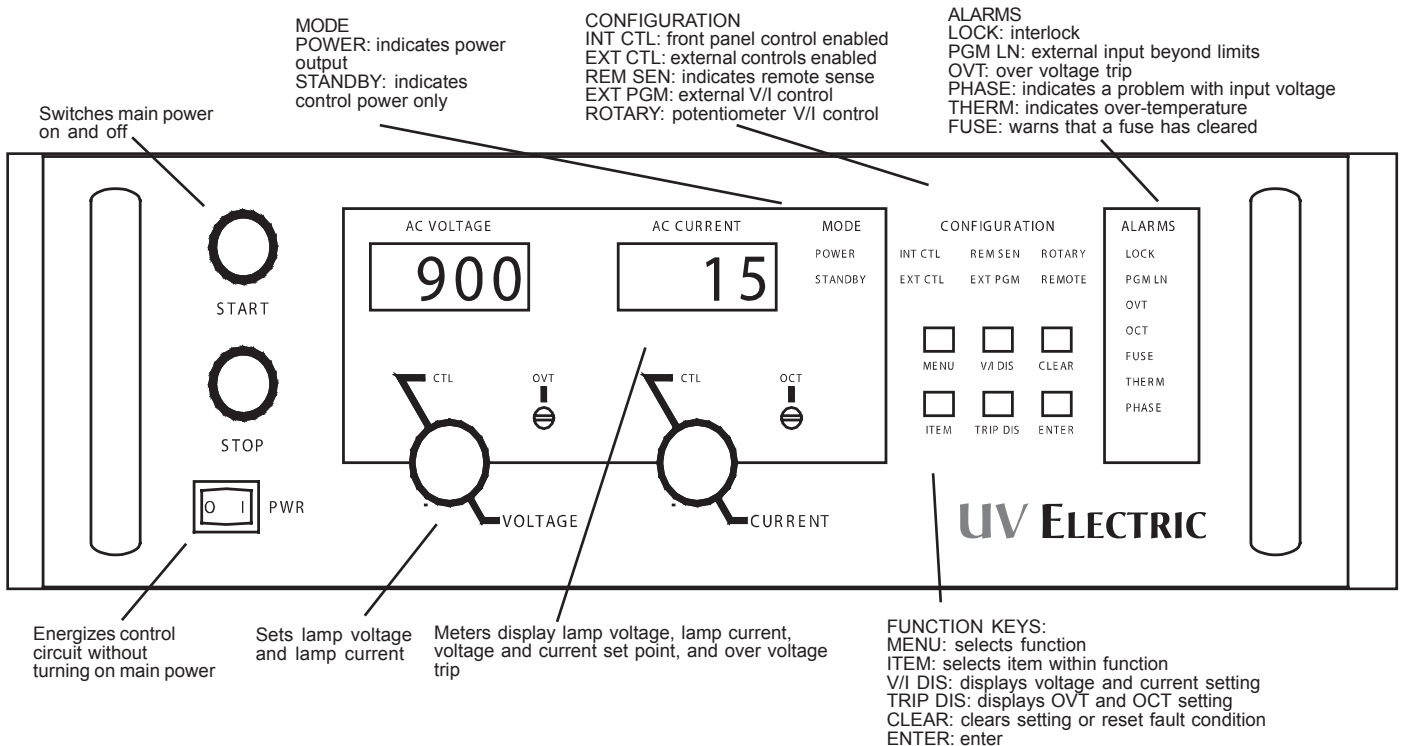
The use of **UV Electric's LS Series** ballasts also reduces the so called relamping costs as igniting with UV Electric's standard, internal 2kV pulse igniter and operating discharge lamps at unity current crest factor (crest factor defined as a ratio between the peak and the rms value) is the optimal condition for minimizing electrode wear and therefore extending lamp life by reducing lamp wall blackening, caused by electrode sputtering, and associated UV output reduction.

The **LS Series** product line-up covers the 3.3kW to 60kW power range with 44 models either with front-panel control, the **LSA Series**, or without it, the **LSC Series**.

Both options have a switch that energizes the control circuits without turning on the main power. These controls are tied to a mechanical contactor to break the ac mains when stop is commanded. Each model can be programmed remotely via analog inputs (resistance, voltage, or current), via RS232 digital interface or optional Ethernet interface.

**UV Electric's LS Series** ballasts are rack-mountable up-to 45kW, while the 60kW models are cabinet mounted.

The **LS Series** ballasts's diagnostic functions include lamp and ballast status monitoring. These ballasts have three levels of over current protection: shutdown of controlling insulated gate bipolar transistors (IGBT's), disconnect of main power, and internal fusing. If the fault condition requires user attention, such as open circuit conditions caused by a failed lamp, main power is disconnected and the diagnostic condition is latched into memory.



# UV ELECTRIC

E-mail: [sales@uvelectric.com](mailto:sales@uvelectric.com)  
Phone: (973) 968-5033 / Fax: (973) 270-2458  
P.O. Box 3837, Jersey City, NJ 07303  
[www.uvelectric.com](http://www.uvelectric.com)