



# CLASSIC LED DRIVERS & POWER ACCESSORIES



Intelligent Device  
ECOSYSTEM





# LED Drivers

## classic

Welcome to our Classic LED Driver catalog--fixed output and dimmable models.

Our focus on continuous innovation results in adapting our product line to the changing needs of our industry. We provide three levels of products to fit the needs of the Intelligent Device Ecosystem. First is our Classic driver line, a comprehensive product line to cover most needs of commercial & industrial lighting OEMs for indoor and outdoor applications.

To step up to more integrated components, find our Dynamic and fully Intelligent driver products in our SelectSYNC™ Driver catalog.

Founded in 1997, we design, manufacture and distribute power solutions and accessories from our centrally-located headquarters in Elgin, Illinois USA. TRP designs are optimized for quality, efficiency, longevity, and cost-competitiveness.

We take pride in providing both superior standard products and custom options, tailored to customers' needs. The company is committed to providing superior quality and technology, along with superior service, to both OEM customers and replacement parts channels.

### Custom Drivers & Solutions

We solve problems and create unique products to meet customer applications through our Norlux custom services: Design, testing and manufacturing. Contact us for details.

**Capabilities include:**

- Custom design/engineering for drivers, light engines, electronics and complete luminaires
- Electrical, Optical & Thermal design
- Rapid prototyping
- Fully-equipped development and testing labs
- Fixture electrical and light output testing
- Automated cleanroom manufacturing: class 100,000
- COB production and SMT assembly



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# LED DRIVER ESSENTIALS

## Type TL Drivers

Many of our Classic LED drivers carry UL's Type TL rating. This program assists OEMs in getting new luminaires to market faster. It simplifies compliance testing for luminaires that utilize TL rated drivers, and allows for driver flexibility during production. The program extends the UL8750 standard. All our Classic LED drivers are UL Recognized Components.

**FOR PROGRAMMABLE DRIVERS, PLEASE SEE OUR SELECTSYNC™ PROGRAMMABLE DRIVER CATALOG**

## How Do I Choose The Proper LED Driver For My Application?

- Identify whether a constant-current or constant-voltage source is required to operate your LEDs application
- Identify the number of LEDs used in your application
  - Voltage required is determined by the number of LEDs in series string
  - Current required is determined by number of parallel individual LEDs or strings
- Identify the maximum wattage load the driver will encounter in your application
  - Choose a driver rated slightly higher than your maximum rated load
  - Make sure the driver's output will operate beyond the LED's specified range (voltage range for a constant-current driver, or current range for a constant-voltage driver)
- Identify any dimming needs
- Choose a driver from a manufacturer with US operations (sales and engineering support is just a phone call away), who can also supply your manufacturing locations worldwide

• For complete product details, refer to our individual data sheets

• For information on dimming or choosing the right LED driver, see our website FAQ page

## Type HL Drivers

A number of our drivers offer models that are Type HL rated for use in Class 1 Div. 2 Hazardous Locations. Includes all PLED series drivers.

### -HV Models

Driver models that offer -HV versions are suitable for high voltage applications (347-480V input).

## SAM Listed Sign Drivers

Sign Component (SAM) Manual Listed drivers simplify utilizing 12V or 24V constant-voltage drivers for outdoor sign applications. These drivers are called out in this catalog by a dot in the SAM column.

## Classic LED Driver Product Families

### PERFORMANCE DRIVERS:

PLED Series	60W- 200W	High performance, Small case, dim to <10%
TLED Series	25W, 40W	Flicker-free, Deep dimming

### STANDARD DRIVERS:

LED Series	12W-100W	Long life, 0-10V dimming, Dim to 10%
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### SPECIALTY DRIVERS:

-HL Series	25W, 40W	Hazardous location, Bottom-exit lead options
-LT/LE/TE Series	6W, 9W, 12W, 16W, 20W, 25W, 40W, 96W	Line voltage dimming
-HV Series	25W, 40W, 96W	347-480V input

## Features Of LED Drivers From TRP

Long-life LED Drivers from Thomas Research Products represent the latest available technology. Most LED Drivers from TRP feature:

- **TRUE** 277V input: Universal 120-277V Nom. (90-305V Min/Max), -HV Series feature 277-480V Nom. Input, 50/60Hz
- UL Recognized in both the US & Canada, many also CE certified
- UL1310, Class 2 compliant or UL8750 as appropriate
- RoHS compliant
- IP20 or IP66 compliant
- Suitable for damp or dry locations
- Output protection: over-voltage, over-current and short-circuit
- Compact, lightweight UV-rated plastic or aluminum case.
- Many feature **Black Magic Thermally Advantage™** housings
- **Must typically be loaded to a minimum of 50% of their rated max power output (wattage) to ensure proper operation**
- Power factor  $\geq 0.90$  (Active Power Factor Correction)
- Minimum Operating Temperature -20°C or lower
- Operating Frequency  $\geq 120$  Hz
- Meets FCC CFR Part 15 Part B emission limits
- Class A sound rating
- Standard 5-year warranty, exceeding the Energy Star 3 year warranty requirement
- Max driver temperatures vary. See product data sheets for details.



# 6W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.35" x 1.42" x 0.9"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	<b>Triac</b> For Leading Edge (Incandescent) dimmers & <b>ELV</b> For Trailing Edge (Electronic Low Voltage) dimmers	170	22-36	LED06W120-036-C0170-LT	120	6	82%		
		200	18-30	LED06W120-030-C0200-LT			82%		
		220	17-28	LED06W120-028-C0220-LT			81%		
		350	12-20	LED06W120-020-C0350-LT			81%	●	
		450	8-14	LED06W120-014-C0450-LT			80%		
		500	7-12	LED06W120-012-C0500-LT			80%	●	
		170	22-36	LED06W230-036-C0170-LT	230-277	6	82%		
		200	18-30	LED06W230-030-C0200-LT			82%		
		220	17-28	LED06W230-028-C0220-LT			81%		
		350	12-20	LED06W230-020-C0350-LT			81%		
		450	8-14	LED06W230-014-C0450-LT			80%		
		500	7-12	LED06W230-012-C0500-LT			80%		

# 9W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.35" x 1.42" x 0.9"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	<b>Triac</b> For Leading Edge (Incandescent) dimmers & <b>ELV</b> For Trailing Edge (Electronic Low Voltage) dimmers	250	22-36	LED09W120-036-C0250-LT	120	9	85%		
		300	18-30	LED09W120-030-C0300-LT			85%		
		350	17-28	LED09W120-028-C0350-LT			84%	●	
		450	12-20	LED09W120-020-C0450-LT			84%		
		700	8-14	LED09W120-014-C0700-LT			83%	●	
		750	7-12	LED09W120-012-C0750-LT			83%		
		250	22-36	LED09W230-036-C0250-LT	230-277	9	85%		
		300	18-30	LED09W230-030-C0300-LT			85%		
		350	17-28	LED09W230-028-C0350-LT			84%		
		450	12-20	LED09W230-020-C0450-LT			84%		
		700	8-14	LED09W230-014-C0700-LT			83%		
		750	7-12	LED09W230-012-C0750-LT			83%		

# 12W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 3.35" x 1.42" x 0.9"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	250	24-48	LED12W-48-C0250	100-277	12	82%	●	
		350	18-36	LED12W-36-C0350		12.6	81%	●	
		350	16.4-24	LED12W-24-C0350		8.2	80%	●	
		500	12-24	LED12W-24-C0500		12	80%	●	
		700	11.2-16	LED12W-16-C0700		11.2	79%	●	
		800	8-16	LED12W-16-C0800		12.8	79%	●	
		1000	6-12	LED12W-12-C1000		12	78%	●	
V	No	250-1000	12	LED12W-12	100-277	12	78%	●	●
		200-800	16	LED12W-16		12.8	79%		
		125-500	24	LED12W-24		12	80%	●	●
		88-350	36	LED12W-36		12.6	81%		
		63-250	48	LED12W-48		12	82%		

# 12W



## LED Series

- Dimming
- Compact Black Plastic Case
- OA: 4.04" x 1.48" x 0.95"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	0-10V	250	12-36	LED12W-36-C0250-D	120-277	9	77%	●	
		250	16-48	LED12W-48-C0250-D		12	80%	●	
		350	12-36	LED12W-36-C0350-D		12.6	80%	●	
		500	8-24	LED12W-24-C0500-D		12	78%	●	
		700	6-16	LED12W-16-C0700-D		11.2	78%	●	
		800	6-16	LED12W-16-C0800-D		12.8	78%	●	
		1000	4-12	LED12W-12-C1000-D		12	77%	●	

# 12W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.35" x 1.42" x 0.9"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	<b>Triac</b> For Leading Edge (Incandescent) dimmers & <b>ELV</b> For Trailing Edge (Electronic Low Voltage) dimmers	250	29-48	LED12W120-048-C0250-LT	120	12	85%	●	
		300	24-40	LED12W120-040-C0300-LT			85%		
		350	22-36	LED12W120-036-C0350-LT			84%	●	
		500	14-24	LED12W120-024-C0500-LT			83%	●	
		800	10-16	LED12W120-016-C0800-LT			82%	●	
		1000	7-12	LED12W120-012-C1000-LT			81%	●	
		250	29-48	LED12W230-048-C0250-LT			230-277	12	85%
		300	24-40	LED12W230-040-C0300-LT	85%				
		350	22-36	LED12W230-036-C0350-LT	84%				
		500	14-24	LED12W230-024-C0500-LT	83%				
		800	10-16	LED12W230-016-C0800-LT	82%				
		1000	7-12	LED12W230-012-C1000-LT	81%				

# 16W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.74" x 1.61" x 0.98"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	<b>Triac</b> For Leading Edge (Incandescent) dimmers & <b>ELV</b> For Trailing Edge (Electronic Low Voltage) dimmers	350	28-46	LED16W120-046-C0350-LT	120	16	85%	●	
		450	22-36	LED16W120-036-C0450-LT			85%	●	
		550	18-30	LED16W120-030-C0550-LT			84%	●	
		600	17-28	LED16W120-028-C0600-LT			84%		
		700	14-24	LED16W120-024-C0700-LT			83%	●	
		1140	8-14	LED16W120-014-C1140-LT			82%		
		1330	7-12	LED16W120-012-C1330-LT			82%		
		350	28-46	LED16W230-046-C0350-LT	230-277	16	85%		
		450	22-36	LED16W230-036-C0450-LT			85%		
		550	18-30	LED16W230-030-C0550-LT			84%		
		600	17-28	LED16W230-028-C0600-LT			84%		
		700	14-24	LED16W230-024-C0700-LT			83%		
		1140	8-14	LED16W230-014-C1140-LT			82%		
		1330	7-12	LED16W230-012-C1330-LT			82%		

# 17W



## LED Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.35" x 1.42" x 0.9"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	470	18-36	LED17W-036-C0470	100-277	17	83%		
		700	12-24	LED17W-024-C0700			82%	●	
		1400	6-12	LED17W-012-C1400			82%		
V	No	350-1400	12	LED17W-012	100-277	17	82%		●
		175-700	24	LED17W-024			82%	●	●
		118-470	36	LED17W-036			83%		

# 20W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 3.74" x 1.61" x 0.98"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	350	19-57	LED20W-57-C0350	100-277	20	84%		
		350	16-48	LED20W-48-C0350		16.8	83%		
		460	15-43	LED20W-43-C0460		20	83%		
		500	14-40	LED20W-40-C0500		20	82%		
		550	18-36	LED20W-36-C0550		20	82%	●	
		700	10-28	LED20W-28-C0700		20	81%	●	
		830	8-24	LED20W-24-C0830		20	81%	●	
		910	12-22	LED20W-22-C0910		20	81%		
		1100	10-18	LED20W-18-C1100		20	80%	●	
		1330	9-15	LED20W-15-C1330		20	80%		
		1540	7-13	LED20W-13-C1540		20	79%		
		1660	7-12	LED20W-12-C1660		20	78%		
		C	0-10V	350		19-57	LED20W-57-C0350-D	100-277	20
350	16-48			LED20W-48-C0350-D	16.8	83%	●		
460	15-43			LED20W-43-C0460-D	20	83%			
500	14-40			LED20W-40-C0500-D	20	82%	●		
550	12-36			LED20W-36-C0550-D	20	82%	●		
700	10-28			LED20W-28-C0700-D	20	81%	●		
830	8-24			LED20W-24-C0830-D	20	81%			
910	7-22			LED20W-22-C0910-D	20	81%			
1100	6-18			LED20W-18-C1100-D	20	80%	●		
1330	6-15			LED20W-15-C1330-D	20	80%			
1540	4-13			LED20W-13-C1540-D	20	79%			
1660	4-12			LED20W-12-C1660-D	20	78%			
V	No			415-1660	12	LED20W-12	100-277		20
		385-1540	13	LED20W-13	20	82%			
		333-1330	15	LED20W-15	20	83%			
		275-1100	18	LED20W-18	20	83%			
		228-910	22	LED20W-22	20	84%			
		208-830	24	LED20W-24	20	84%		●	●
		175-700	28	LED20W-28	20	84%			
		138-550	36	LED20W-36	20	85%			
		125-500	40	LED20W-40	20	85%			
		115-460	43	LED20W-43	20	85%			
		88-350	48	LED20W-48	16.8	85%			
		88-350	57	LED20W-57	20	85%			

# 20W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.74" x 1.61" x 0.98"

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	Triac For Leading Edge (Incandescent) dimmers & ELV For Trailing Edge (Electronic Low Voltage) dimmers	350	34-57	LED20W120-057-C0350-LT	120	20	85%	●	
		460	26-43	LED20W120-043-C0460-LT			85%		
		500	24-40	LED20W120-040-C0500-LT			85%	●	
		550	22-36	LED20W120-036-C0550-LT			83%	●	
		700	17-28	LED20W120-028-C0700-LT			82%	●	
		830	14-24	LED20W120-024-C0830-LT			82%		
		1100	11-18	LED20W120-018-C1100-LT			81%	●	
		1660	7-12	LED20W120-012-C1660-LT			80%		
		350	34-57	LED20W230-057-C0350-LT			230-277	20	85%
		460	26-43	LED20W230-043-C0460-LT	85%				
		500	24-40	LED20W230-040-C0500-LT	85%				
		550	22-36	LED20W230-036-C0550-LT	83%				
		700	17-28	LED20W230-028-C0700-LT	82%				
		830	14-24	LED20W230-024-C0830-LT	82%				
		1100	11-18	LED20W230-018-C1100-LT	81%				
		1660	7-12	LED20W230-012-C1660-LT	80%				

# 25W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 3.07" x 3.15" x 0.99"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM		
C	No	350	24-72	LED25W-72-C0350	100-277	25	86%	●			
		350	13-40	LED25W-40-C0350		14	84%				
		350	10-28	LED25W-28-C0350		9.8	83%				
		400	21-62	LED25W-62-C0400		24.8	85%				
		450	19-56	LED25W-56-C0450		25	84%	●			
		500	13-40	LED25W-40-C0500		20	84%	●			
		620	13-40	LED25W-40-C0620		24.8	84%				
		700	12-36	LED25W-36-C0700		25	84%	●			
		850	10-28	LED25W-28-C0850		23.8	83%				
		1040	8-24	LED25W-24-C1040		25	83%	●			
		1250	7-20	LED25W-20-C1250		25	83%	●			
		1400	6-18	LED25W-18-C1400		25	82%	●			
		1560	6-16	LED25W-16-C1560		25	82%	●			
		1750	5-14	LED25W-14-C1750		24.5	82%				
		2080	4-12	LED25W-12-C2080		25	81%	●			
		0-10V	350	24-72		LED25W-72-C0350-D	100-277	25	86%	●	
			350	13-40		LED25W-40-C0350-D		14	84%	●	
			350	10-28		LED25W-28-C0350-D		9.8	83%	●	
	400		21-62	LED25W-62-C0400-D	24.8	85%					
	450		19-56	LED25W-56-C0450-D	25	84%		●			
	500		13-40	LED25W-40-C0500-D	20	84%		●			
	620		13-40	LED25W-40-C0620-D	24.8	84%		●			
	700		12-36	LED25W-36-C0700-D	25	84%		●			
	850		10-28	LED25W-28-C0850-D	23.8	83%		●			
	1040		8-24	LED25W-24-C1040-D	25	83%		●			
	1250		7-20	LED25W-20-C1250-D	25	83%					
	1400		6-18	LED25W-18-C1400-D	25	82%		●			
	1560		6-16	LED25W-16-C1560-D	25	82%					
	1750		5-14	LED25W-14-C1750-D	24.5	82%					
	2080		4-12	LED25W-12-C2080-D	25	81%					
	V		No	520-2080	12	LED25W-12		100-277	25	81%	●
		438-1750		14	LED25W-14	24.5	82%				
		390-1560		16	LED25W-16	25	82%				
		360-1400		18	LED25W-18	25	82%				
313-1250		20		LED25W-20	25	83%					
260-1040		24		LED25W-24	25	83%	●		●		
213-850		28		LED25W-28	23.8	83%					
175-700		36		LED25W-36	25	84%					
155-620		40		LED25W-40	24.8	84%					
113-450		56		LED25W-56	25	84%					
100-400		62		LED25W-62	24.8	85%					
86-350		72		LED25W-72	25	86%					

# 25W



## LED-LE/TE Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.07" x 3.15" x 0.99"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	INC For Leading Edge (Incandescent) dimmers	350	36-72	LED25W-72-C0350-LE	100-277	25	86%		
		520	24-48	LED25W-48-C0520-LE			85%		
		700	18-36	LED25W-36-C0700-LE			84%	●	
		1040	12-24	LED25W-24-C1040-LE			83%	●	
	ELV For Trailing Edge (Electronic Low Voltage) dimmers	350	36-72	LED25W-72-C0350-TE	100-277	25	86%		
		520	24-48	LED25W-48-C0520-TE			85%		
		700	18-36	LED25W-36-C0700-TE			84%	●	
		1040	12-24	LED25W-24-C1040-TE			83%	●	

# 25W



## LED-HL Series

- Hazardous Location
- X = B (bottom) or S (side) leads
- Compact Black Plastic Case
- OA: 3.07" x 3.15" x 1.18"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	350	24-72	LED25W-72-C0350-HL-X	100-277	25	86%		
		400	21-62	LED25W-62-C0400-HL-X		24.8	85%		
		450	19-56	LED25W-56-C0450-HL-X		25	84%		
		560	13-45	LED25W-45-C0560-HL-X		25	84%		
		620	13-40	LED25W-40-C0620-HL-X		24.8	84%		
		700	12-36	LED25W-36-C0700-HL-X		25	83%		
		850	10-28	LED25W-28-C0850-HL-X		23.8	82%		
		1040	8-24	LED25W-24-C1040-HL-X		25	82%		
		1250	7-20	LED25W-20-C1250-HL-X		25	82%		
		1400	6-18	LED25W-18-C1400-HL-X		25	81%		
		1560	6-16	LED25W-16-C1560-HL-X		25	81%		
		1750	5-14	LED25W-14-C1750-HL-X		24.5	80%		
		2080	4-12	LED25W-12-C2080-HL-X		25	78%		
		C	0-10V	350		24-72	LED25W-72-C0350-HL-XD	100-277	25
400	21-62			LED25W-62-C0400-HL-XD	24.8	85%			
450	19-56			LED25W-56-C0450-HL-XD	25	84%			
560	13-45			LED25W-45-C0560-HL-XD	25	84%			
620	13-40			LED25W-40-C0620-HL-XD	24.8	84%			
700	12-36			LED25W-36-C0700-HL-XD	25	83%			
850	10-28			LED25W-28-C0850-HL-XD	23.8	82%			
1040	8-24			LED25W-24-C1040-HL-XD	25	82%			
1250	7-20			LED25W-20-C1250-HL-XD	25	82%			
1400	6-18			LED25W-18-C1400-HL-XD	25	81%			
1560	6-16			LED25W-16-C1560-HL-XD	25	81%			
1750	5-14			LED25W-14-C1750-HL-XD	24.5	80%			
2080	4-12			LED25W-12-C2080-HL-XD	25	78%			
V	No			520-2080	12	LED25W-12-HL-X	100-277		25
		438-1750	14	LED25W-14-HL-X	24.5	82%			
		390-1560	16	LED25W-16-HL-X	25	82%			
		360-1400	18	LED25W-18-HL-X	25	82%			
		313-1250	20	LED25W-20-HL-X	25	83%			
		260-1040	24	LED25W-24-HL-X	25	83%			
		213-850	28	LED25W-28-HL-X	23.8	83%			
		175-700	36	LED25W-36-HL-X	25	84%			
		140-560	45	LED25W-45-HL-X	25	84%			
		155-620	40	LED25W-40-HL-X	24.8	84%			
		113-450	56	LED25W-56-HL-X	25	84%			
		100-400	62	LED25W-62-HL-X	24.8	85%			
		88-350	72	LED25W-72-HL-X	25	86%			

# 25W



## TLED Series

- Deep Dimming
- Compact Black Plastic Case
- OA: 3.78" x 2.82" x 1.26"

### TYPE TL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	0-10V	700	12-36	TLED25W-036-C0700-D	120-277	25.2	83%		



# 30W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 5.31" x 1.69" x 0.98"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	350	28-85	LED30W-85-C0350	100-277	29.8	88%	●	
		400	25-75	LED30W-75-C0400		30.0	87%		
		450	22-66	LED30W-66-C0450		29.7	87%		
		700	14-42	LED30W-42-C0700		29.4	87%	●	
		830	12-36	LED30W-36-C0830		29.9	87%		
		1250	8-24	LED30W-24-C1250		30.0	86%		
		1660	6-18	LED30W-18-C1660		29.8	85%		
		2500	4-12	LED30W-12-C2500		30.0	85%		
	0-10V	350	28-85	LED30W-85-C0350-D	100-277	29.8	88%	●	
		400	25-75	LED30W-75-C0400-D		30.0	87%		
		450	22-66	LED30W-66-C0450-D		29.7	87%	●	
		700	14-42	LED30W-42-C0700-D		29.4	87%	●	
		830	12-36	LED30W-36-C0830-D		29.9	87%	●	
		1250	8-24	LED30W-24-C1250-D		30.0	86%	●	
V	No	625-2500	12	LED30W-12	100-277	30.0	84%	●	●
		415-1660	18	LED30W-18		30.0	85%		
		313-1250	24	LED30W-24		30.0	85%	●	●
		208-830	36	LED30W-36		29.9	86%		
		175-700	42	LED30W-42		29.4	87%		
		113-450	66	LED30W-66		29.7	87%		
		100-400	75	LED30W-75		30.0	87%		
		88-350	85	LED30W-85		29.8	88%		

# 35W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 9.1" x 1.05" x 1.02"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
C	No	350	34-100	LED35W-100-C0350	100-277	35	90%		
		700	18-54	LED35W-054-C0700			89%		
		1050	18-36	LED35W-036-C1050			88%		
		1250	14-28	LED35W-028-C1250			88%		
	0-10V	350	34-100	LED35W-100-C0350-D	100-277	35	90%		
		700	18-54	LED35W-054-C0700-D			89%	●	
		1050	18-36	LED35W-036-C1050-D			88%	●	
		1250	14-28	LED35W-028-C1250-D			88%		
V	No	313-1250	28	LED35W-028	100-277	35	88%		
		263-1050	36	LED35W-036			88%		
		175-700	54	LED35W-054			89%		
		86-350	100	LED35W-100			90%		

# 40W



## LED-LT Series

- Line Voltage Dimming
- Compact Black Plastic Case
- OA: 3.74" x 2.76" x 1.26"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM	
C	<b>INC</b> For Leading Edge (Incandescent) dimmers & <b>ELV</b> For Trailing Edge (Electronic Low Voltage) dimmers	350	57-114	LED40W120-114-C0350-LT	120	40	85%			
		700	27-54	LED40W120-054-C0700-LT			85%	●		
		1000	20-40	LED40W120-040-C1000-LT			84%	●		
		1100	18-36	LED40W120-036-C1100-LT			84%	●		
		1300	15-30	LED40W120-030-C1300-LT			83%			
		1670	15-24	LED40W120-024-C1670-LT			82%			
		230-277	350	57-114	LED40W230-114-C0350-LT	230-277	40	85%		
			700	27-54	LED40W230-054-C0700-LT			85%		
			1000	20-40	LED40W230-040-C1000-LT			84%		
			1100	18-36	LED40W230-036-C1100-LT			84%		
			1300	15-30	LED40W230-030-C1300-LT			83%		
			1670	12-24	LED40W230-024-C1670-LT			82%		

# 40W



## LED Series

- Standard
- Compact Black Plastic Case
- OA: 3.74" x 2.76" x 1.26"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	38-114	LED40W-114-C0350	100-277	40.0	87%		
		400	33-100	LED40W-100-C0400		40.0	87%		
		450	30-89	LED40W-089-C0450		40.0	87%		
		700	18-54	LED40W-054-C0700		37.8	86%	●	
		830	16-48	LED40W-048-C0830		40.0	86%		
		900	15-45	LED40W-045-C0900		40.0	86%		
		1000	20-40	LED40W-040-C1000		40	85%		
		1100	12-36	LED40W-036-C1100		40.0	86%	●	
		1300	10-30	LED40W-030-C1300		39.0	86%		
		1300	8-24	LED40W-024-C1300		31.2	86%		
		1400	10-30	LED40W-030-C1400		42	85%		
		1400	8-24	LED40W-024-C1400		33.6	86%	●	
		1670	8-24	LED40W-024-C1670		40.0	86%		
		1820	7-22	LED40W-022-C1820		40.0	86%		
		2200	6-18	LED40W-018-C2200		40.0	85%		
		2680	5-15	LED40W-015-C2680		40.0	85%		
		3080	4-13	LED40W-013-C3080		40.0	85%		
		3330	4-12	LED40W-012-C3330		40.0	84%		
		4000	3-10	LED40W-010-C4000		40.0	84%		
		4450	3-9	LED40W-009-C4450		40.0	83%		
<b>C</b>	<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	350	38-114	LED40W-114-C0350-D	100-277	40.0	87%	●	
		400	33-100	LED40W-100-C0400-D		40.0	87%		
		450	30-89	LED40W-089-C0450-D		40.0	87%	●	
		700	18-54	LED40W-054-C0700-D		37.8	86%	●	
		830	16-48	LED40W-048-C0830-D		40.0	86%		
		900	15-45	LED40W-045-C0900-D		40.0	86%	●	
		1000	20-40	LED40W-040-C1000-D		40	85%	●	
		1100	12-36	LED40W-036-C1100-D		40.0	86%	●	
		1300	10-30	LED40W-030-C1300-D		39.0	86%	●	
		1300	8-24	LED40W-024-C1300-D		31.2	86%	●	
		1400	10-30	LED40W-030-C1400-D		42	85%	●	
		1400	8-24	LED40W-024-C1400-D		33.6	86%	●	
		1670	8-24	LED40W-024-C1670-D		40.0	86%	●	
		1820	7-22	LED40W-022-C1820-D		40.0	86%	●	
		2200	6-18	LED40W-018-C2200-D		40.0	85%		
		2680	5-15	LED40W-015-C2680-D		40.0	85%		
		3080	4-13	LED40W-013-C3080-D		40.0	85%		
		3330	4-12	LED40W-012-C3330-D		40.0	84%		
		4000	3-10	LED40W-010-C4000-D		40.0	84%		
		4450	3-9	LED40W-009-C4450-D		40.0	83%		
<b>V</b>	<b>No</b>	1113-4450	9	LED40W-009	100-277	40.0	83%		
		1000-4000	10	LED40W-010		40.0	84%		
		833-3330	12	LED40W-012		40.0	84%	●	●
		770-3080	13	LED40W-013		40.0	85%		
		670-2680	15	LED40W-015		40.0	85%		
		550-2200	18	LED40W-018		40.0	85%		
		455-1820	22	LED40W-022		40.0	86%		
		418-1670	24	LED40W-024		40.0	86%	●	●
		325-1300	30	LED40W-030		39.0	86%		
		275-1100	36	LED40W-036		40.0	86%		
		225-900	45	LED40W-045		40.0	86%		
		208-830	48	LED40W-048		40.0	86%		
		175-700	54	LED40W-054		37.8	86%		
		113-450	89	LED40W-089		40.0	87%		
		100-400	100	LED40W-100		40.0	87%		
		88-350	114	LED40W-114		40.0	87%		

# 40W



## LED-HL Series

- Hazardous Location
- X = B (bottom) or S (side) leads
- Compact Black Plastic Case
- OA: 3.78" x 2.8" x 1.4"

### TYPE HL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	300	44-130	LED40W-130-C0300-HL-X	100-277	40	87		
		350	38-114	LED40W-114-C0350-HL-X		40	86		
		400	33-100	LED40W-100-C0400-HL-X		40	86		
		450	30-89	LED40W-089-C0450-HL-X		40	86		
		550	24-72	LED40W-072-C0550-HL-X		40	85		
		700	18-54	LED40W-054-C0700-HL-X		38	85		
		830	16-48	LED40W-048-C0830-HL-X		40	85		
		900	16-45	LED40W-045-C0900-HL-X		40	85		
		1000	13-40	LED40W-040-C1000-HL-X		40	85		
		1100	12-36	LED40W-036-C1100-HL-X		40	85		
		1400	10-30	LED40W-030-C1400-HL-X		42	85		
		1670	8-24	LED40W-024-C1670-HL-X		40	85		
		1820	7-22	LED40W-022-C1820-HL-X		40	85		
		2200	6-18	LED40W-018-C2220-HL-X		40	84		
		2680	5-15	LED40W-015-C2680-HL-X		40	84		
		3080	4-13	LED40W-013-C3080-HL-X		40	84		
		3330	4-12	LED40W-012-C3330-HL-X		40	83		
		4000	3-10	LED40W-010-C4000-HL-X		40	83		
4450	3-9	LED40W-009-C4450-HL-X	40	82					
<b>C</b>	<b>0-10V</b>	300	44-130	LED40W-130-C0300-HL-XD	100-277	40	87		
		350	38-114	LED40W-114-C0350-HL-XD		40	86		
		400	33-100	LED40W-100-C0400-HL-XD		40	86		
		450	30-89	LED40W-089-C0450-HL-XD		40	86		
		550	24-72	LED40W-072-C0550-HL-XD		40	85		
		700	18-54	LED40W-054-C0700-HL-XD		38	85		
		830	16-48	LED40W-048-C0830-HL-XD		40	85		
		900	16-45	LED40W-045-C0900-HL-XD		40	85		
		1000	13-40	LED40W-040-C1000-HL-XD		40	85		
		1100	12-36	LED40W-036-C1100-HL-XD		40	85		
		1400	10-30	LED40W-030-C1400-HL-XD		42	85		
		1670	8-24	LED40W-024-C1670-HL-XD		40	85		
		1820	7-22	LED40W-022-C1820-HL-XD		40	85		
		2200	6-18	LED40W-018-C2220-HL-XD		40	84		
		2680	5-15	LED40W-015-C2680-HL-XD		40	84		
		3080	4-13	LED40W-013-C3080-HL-XD		40	84		
		3330	4-12	LED40W-012-C3330-HL-XD		40	83		
		4000	3-10	LED40W-010-C4000-HL-XD		40	83		
4450	3-9	LED40W-009-C4450-HL-XD	40	82					
<b>V</b>	<b>No</b>	1113-4450	9	LED40W-009-HL-X	100-277	40	87		
		1000-4000	10	LED40W-010-HL-X		40	86		
		825-3330	12	LED40W-012-HL-X		40	86		
		770-3080	13	LED40W-013-HL-X		40	86		
		670-2680	15	LED40W-015-HL-X		40	85		
		550-2200	18	LED40W-018-HL-X		40	85		
		455-1820	22	LED40W-022-HL-X		40	85		
		418-1670	24	LED40W-024-HL-X		40	85		
		350-1400	30	LED40W-030-HL-X		42	85		
		275-1100	36	LED40W-036-HL-X		40	85		
		250-1000	40	LED40W-040-HL-X		40	85		
		225-900	45	LED40W-045-HL-X		40	85		
		208-830	48	LED40W-048-HL-X		40	85		
		175-700	54	LED40W-054-HL-X		38	84		
		138-550	72	LED40W-072-HL-X		40	84		
		113-450	89	LED40W-089-HL-X		40	84		
		100-400	100	LED40W-100-HL-X		40	83		
		75-350	114	LED40W-114-HL-X		40	83		
75-300	130	LED40W-130-HL-X	40	82					

# 40W



## LED-HL-HV Series

- High Voltage 347-480V Input
- X = B (bottom) or S (side) leads
- Compact Black Plastic Case
- OA: 3.78" x 2.8" x 1.26"

**TYPE  
HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	300	44-130	LED40W-130-C0300-HL-X-HV	347-480	39.0	87%		
		350	38-114	LED40W-114-C0350-HL-X-HV		39.9	86%		
		400	33-100	LED40W-100-C0400-HL-X-HV		40	86%		
		450	30-89	LED40W-089-C0450-HL-X-HV		40	86%		
		550	24-72	LED40W-072-C0550-HL-X-HV		39.6	85%		
		700	20-57	LED40W-057-C0700-HL-X-HV		40	85%		
		830	16-48	LED40W-048-C0830-HL-X-HV		39.8	85%		
		900	16-45	LED40W-045-C0900-HL-X-HV		40	85%		
		1000	13-40	LED40W-040-C1000-HL-X-HV		40	85%		
		1100	12-36	LED40W-036-C1100-HL-X-HV		39.6	85%		
		1400	10-30	LED40W-030-C1400-HL-X-HV		40	85%		
		1670	8-24	LED40W-024-C1670-HL-X-HV		40	85%		
		1820	7-22	LED40W-022-C1820-HL-X-HV		40	85%		
		2200	6-18	LED40W-018-C2220-HL-X-HV		39.6	84%		
		2680	5-15	LED40W-015-C2680-HL-X-HV		40	85%		
		3080	4-13	LED40W-013-C3080-HL-X-HV		40	84%		
		3330	4-12	LED40W-012-C3330-HL-X-HV		40	83%		
		4000	3-10	LED40W-010-C4000-HL-X-HV		40	83%		
4450	3-9	LED40W-009-C4450-HL-X-HV	40	82%					
<b>C</b>	<b>0-10V</b>	300	44-130	LED40W-130-C0300-D-HL-XD-HV	347-480	39.0	87%		
		350	38-114	LED40W-114-C0350-D-HL-XD-HV		39.9	86%		
		400	33-100	LED40W-100-C0400-D-HL-XD-HV		40	86%		
		450	30-89	LED40W-089-C0450-D-HL-XD-HV		40	86%		
		550	24-72	LED40W-072-C0550-D-HL-XD-HV		39.6	85%		
		700	20-57	LED40W-057-C0700-D-HL-XD-HV		40	85%		
		830	16-48	LED40W-048-C0830-D-HL-XD-HV		39.8	85%		
		900	16-45	LED40W-045-C0900-D-HL-XD-HV		40	85%		
		1000	13-40	LED40W-040-C1000-D-HL-XD-HV		40	85%		
		1100	12-36	LED40W-036-C1100-D-HL-XD-HV		39.6	85%		
		1400	10-30	LED40W-030-C1400-D-HL-XD-HV		40	85%		
		1670	8-24	LED40W-024-C1670-D-HL-XD-HV		40	85%		
		1820	7-22	LED40W-022-C1820-D-HL-XD-HV		40	85%		
		2200	6-18	LED40W-018-C2220-D-HL-XD-HV		39.6	84%		
		2680	5-15	LED40W-015-C2680-D-HL-XD-HV		40	85%		
		3080	4-13	LED40W-013-C3080-D-HL-XD-HV		40	84%		
		3330	4-12	LED40W-012-C3330-D-HL-XD-HV		40	83%		
		4000	3-10	LED40W-010-C4000-D-HL-XD-HV		40	83%		
4450	3-9	LED40W-009-C4450-D-HL-XD-HV	40	82%					
<b>V</b>	<b>No</b>	1113-4450	9	LED40W-009-HL-X-HV	347-480	40	82%		
		1000-4000	10	LED40W-010-HL-X-HV		40	83%		
		825-3330	12	LED40W-012-HL-X-HV		40	83%		
		770-3080	13	LED40W-013-HL-X-HV		40	84%		
		670-2680	15	LED40W-015-HL-X-HV		40	85%		
		550-2200	18	LED40W-018-HL-X-HV		39.6	85%		
		455-1820	22	LED40W-022-HL-X-HV		40	85%		
		418-1670	24	LED40W-024-HL-X-HV		40	85%		
		350-1400	30	LED40W-030-HL-X-HV		40	85%		
		275-1100	36	LED40W-036-HL-X-HV		39.6	85%		
		250-1000	40	LED40W-040-HL-X-HV		40	85%		
		225-900	45	LED40W-045-HL-X-HV		40	85%		
		208-830	48	LED40W-048-HL-X-HV		39.8	85%		
		175-700	57	LED40W-057-HL-X-HV		40	85%		
		138-550	72	LED40W-072-HL-X-HV		39.6	85%		
		113-450	89	LED40W-089-HL-X-HV		40	86%		
		100-400	100	LED40W-100-HL-X-HV		40	86%		
		75-350	114	LED40W-114-HL-X-HV		39.9	86%		
75-300	130	LED40W-130-HL-X-HV	39.0	87%					

# 40W



## LED-HV Series

- High Voltage 347-480V Input
- Compact Black Plastic Case
- OA: 3.78" x 2.8" x 1.26"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	300	44-130	LED40W-130-C0300-HV	347-480	39.0	87%		
		350	38-114	LED40W-114-C0350-HV		39.9	86%		
		400	33-100	LED40W-100-C0400-HV		40	86%		
		450	30-89	LED40W-089-C0450-HV		40	86%		
		550	24-72	LED40W-072-C0550-HV		39.6	85%		
		700	20-57	LED40W-057-C0700-HV		40	85%		
		830	16-48	LED40W-048-C0830-HV		39.8	85%		
		900	16-45	LED40W-045-C0900-HV		40	85%		
		1000	13-40	LED40W-040-C1000-HV		40	85%		
		1100	12-36	LED40W-036-C1100-HV		39.6	85%		
		1400	10-30	LED40W-030-C1400-HV		40	85%		
		1670	8-24	LED40W-024-C1670-HV		40	85%		
		1820	7-22	LED40W-022-C1820-HV		40	85%		
		2200	6-18	LED40W-018-C2220-HV		39.6	84%		
		2680	5-15	LED40W-015-C2680-HV		40	85%		
		3080	4-13	LED40W-013-C3080-HV		40	84%		
		3330	4-12	LED40W-012-C3330-HV		40	83%		
		4000	3-10	LED40W-010-C4000-HV		40	83%		
4450	3-9	LED40W-009-C4450-HV	40	82%					
<b>C</b>	<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	300	44-130	LED40W-130-C0300-D-HV	347-480	39.0	87%		
		350	38-114	LED40W-114-C0350-D-HV		39.9	86%		
		400	33-100	LED40W-100-C0400-D-HV		40	86%		
		450	30-89	LED40W-089-C0450-D-HV		40	86%		
		550	24-72	LED40W-072-C0550-D-HV		39.6	85%		
		700	20-57	LED40W-057-C0700-D-HV		40	85%	●	
		830	16-48	LED40W-048-C0830-D-HV		39.8	85%		
		900	16-45	LED40W-045-C0900-D-HV		40	85%		
		1000	13-40	LED40W-040-C1000-D-HV		40	85%		
		1100	12-36	LED40W-036-C1100-D-HV		39.6	85%		
		1400	10-30	LED40W-030-C1400-D-HV		40	85%		
		1670	8-24	LED40W-024-C1670-D-HV		40	85%		
		1820	7-22	LED40W-022-C1820-D-HV		40	85%		
		2200	6-18	LED40W-018-C2220-D-HV		39.6	84%		
		2680	5-15	LED40W-015-C2680-D-HV		40	85%		
		3080	4-13	LED40W-013-C3080-D-HV		40	84%		
		3330	4-12	LED40W-012-C3330-D-HV		40	83%		
		4000	3-10	LED40W-010-C4000-D-HV		40	83%		
4450	3-9	LED40W-009-C4450-D-HV	40	82%					
<b>V</b>	<b>No</b>	1113-4450	9	LED40W-009-HV	347-480	40	82%		
		1000-4000	10	LED40W-010-HV		40	83%		
		825-3330	12	LED40W-012-HV		40	83%		
		770-3080	13	LED40W-013-HV		40	84%		
		670-2680	15	LED40W-015-HV		40	85%		
		550-2200	18	LED40W-018-HV		39.6	85%		
		455-1820	22	LED40W-022-HV		40	85%		
		418-1670	24	LED40W-024-HV		40	85%		
		350-1400	30	LED40W-030-HV		40	85%		
		275-1100	36	LED40W-036-HV		39.6	85%		
		250-1000	40	LED40W-040-HV		40	85%		
		225-900	45	LED40W-045-HV		40	85%		
		208-830	48	LED40W-048-HV		39.8	85%		
		175-700	57	LED40W-057-HV		40	85%		
		138-550	72	LED40W-072-HV		39.6	85%		
		113-450	89	LED40W-089-HV		40	86%		
		100-400	100	LED40W-100-HV		40	86%		
		75-350	114	LED40W-114-HV		39.9	86%		
75-300	130	LED40W-130-HV	39.0	87%					

# 40W



## TLED Series

- Deep Dimming
- Compact Black Plastic Case
- OA: 3.78" x 2.82" x 1.26"

### TYPE TL

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>0-10V</b>	700	30-54	TLED40W-054-C0700-D	120-277	37.8	86%		

# 50W



## LED Series

- Standard
- Black Plastic Case
- OA: 7.24" x 1.69" x 0.98"

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	47-142	LED50W-142-C0350	100-277	49.7	89%	●	
		450	37-111	LED50W-111-C0450		49.9	89%		
		530	24-72	LED50W-072-C0530		38.1	88%		
		700	24-72	LED50W-072-C0700		50.0	88%	●	
		830	20-60	LED50W-060-C0830		49.8	88%		
		1050	16-48	LED50W-048-C1050		50.0	88%		
		1190	14-42	LED50W-042-C1190		50.0	87%		
		1250	13-40	LED50W-040-C1250		50.0	87%		
		1400	12-36	LED50W-036-C1400		50.0	87%	●	
		1750	9-29	LED50W-029-C1750		50.0	87%		
		2100	8-24	LED50W-024-C2100		50.0	87%		
		2500	7-20	LED50W-020-C2500		50.0	87%		
		2800	6-18	LED50W-018-C2800		50.0	86%		
		3330	5-15	LED50W-015-C3330		49.9	85%		
		4200	4-12	LED50W-012-C4200		50.0	84%		
		<b>0-10V</b>	350	47-142		LED50W-142-C0350-D	100-277	49.7	89%
	450		37-111	LED50W-111-C0450-D	49.9	89%		●	
	530		24-72	LED50W-072-C0530-D	38.1	88%			
	700		24-72	LED50W-072-C0700-D	50.0	88%		●	
	830		20-60	LED50W-060-C0830-D	49.8	88%			
	1050		16-48	LED50W-048-C1050-D	50.0	88%		●	
	1190		14-42	LED50W-042-C1190-D	50.0	87%		●	
	1250		13-40	LED50W-040-C1250-D	50.0	87%		●	
	1400		12-36	LED50W-036-C1400-D	50.0	87%		●	
	1750		9-29	LED50W-029-C1750-D	50.0	87%		●	
	2100		8-24	LED50W-024-C2100-D	50.0	87%		●	
	2500		7-20	LED50W-020-C2500-D	50.0	87%		●	
	<b>V</b>	<b>No</b>	1050-4200	12	LED50W-012	100-277	50.0	84%	●
833-3330			15	LED50W-015	49.9		85%		
700-2800			18	LED50W-018	50.0		86%		
625-2500			20	LED50W-020	50.0		87%		
525-2100			24	LED50W-024	50.0		87%	●	●
438-1750			29	LED50W-029	50.0		87%		
350-1400			36	LED50W-036	50.0		87%		
313-1250			40	LED50W-040	50.0		87%		
298-1190			42	LED50W-042	50.0		87%		
263-1050			48	LED50W-048	50.0		88%		
208-830			60	LED50W-060	49.8		88%		
175-700			72	LED50W-072	50.0		88%		
113-450	111	LED50W-111	49.9	89%					
88-350	142	LED50W-142	49.7	89%					

# 60W



## PLED Series

- Performance
- Black Aluminum Case
- OA: 5.51" x 2.33" x 1.47"

**TYPE TL****TYPE HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	280	72-214	PLED60W-214-C0280	100-277	60	91%		
		360	56-166	PLED60W-166-C0360			91%		
		550	36-108	PLED60W-108-C0550			90%		
		850	24-72	PLED60W-072-C0850			90%		
		1100	18-54	PLED60W-054-C1100			91%		
		1250	16-48	PLED60W-048-C1250			88%		
		1450	14-42	PLED60W-042-C1450			88%		
		1670	12-36	PLED60W-036-C1670			86%		
		2250	9-27	PLED60W-027-C2250			86%		
		2500	8-24	PLED60W-024-C2500			85%		
		3000	7-20	PLED60W-020-C3000			84%		
		4000	5-15	PLED60W-015-C4000			84%		
		5000	4-12	PLED60W-012-C5000			84%		
		<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	280	72-214			PLED60W-214-C0280-D	91%	
	360		56-166	PLED60W-166-C0360-D			91%		
	550		36-108	PLED60W-108-C0550-D			90%		
	850		24-72	PLED60W-072-C0850-D			90%		
	1100		18-54	PLED60W-054-C1100-D			91%	●	
	1250		16-48	PLED60W-048-C1250-D			88%		
	1450		14-42	PLED60W-042-C1450-D			88%	●	
	1670		12-36	PLED60W-036-C1670-D			86%	●	
	2250		9-27	PLED60W-027-C2250-D			86%		
	2500		8-24	PLED60W-024-C2500-D			85%		
	3000		7-20	PLED60W-020-C3000-D			84%		
	4000		5-15	PLED60W-015-C4000-D			84%		
	5000	4-12	PLED60W-012-C5000-D	84%					
<b>V</b>	<b>No</b>	1563-5000	12	PLED60W-012	84%		●		
		1250-4000	15	PLED60W-015	84%				
		938-3000	20	PLED60W-020	84%				
		783-2500	24	PLED60W-024	85%	●	●		
		700-2250	27	PLED60W-027	85%				
		525-1670	36	PLED60W-036	86%				
		448-1450	42	PLED60W-042	86%				
		390-1250	48	PLED60W-048	88%				
		350-1200	54	PLED60W-054	88%				
		263-850	72	PLED60W-072	90%				
		175-550	108	PLED60W-108	90%				
		113-360	166	PLED60W-166	91%				
		88-280	214	PLED60W-214	91%				

# 75W



## LED-T5 Series

- Steel T5 Style Case
- OA: 16.69" x 1.18" x 1.02"

**TYPE TL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>0-10V</b>	350	107-214	LED75WT5-214-C0350-D	100-277	75	90%		
		700	54-108	LED75WT5-108-C0700-D			89%		
		1400	27-54	LED75WT5-054-C1400-D			88%		
		2000	19-38	LED75WT5-038-C2000-D			87%		

# 75W



## PLED Series

- Performance
- Black Aluminum Case
- OA: 5.95" x 2.32" x 1.47"

TYPE  
**TL**

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	72-214	PLED75W-214-C0350	100-277	75	92%		
		450	56-166	PLED75W-166-C0450			92%		
		700	36-108	PLED75W-108-C0700			92%		
		1050	24-72	PLED75W-072-C1050			91%		
		1400	18-54	PLED75W-054-C1400			91%		
		1560	16-48	PLED75W-048-C1560			90%		
		1790	14-42	PLED75W-042-C1790			89%		
		2100	12-36	PLED75W-036-C2100			89%		
		2800	9-27	PLED75W-027-C2800			88%		
		3130	8-24	PLED75W-024-C3130			88%		
		3750	7-20	PLED75W-020-C3750			87%		
		5000	5-15	PLED75W-015-C5000			86%		
		6250	4-12	PLED75W-012-C6250			86%		
<b>C</b>	<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	350	72-214	PLED75W-214-C0350-D	100-277	75	92%	●	
		450	56-166	PLED75W-166-C0450-D			92%	●	
		700	36-108	PLED75W-108-C0700-D			92%	●	
		1050	24-72	PLED75W-072-C1050-D			91%	●	
		1400	18-54	PLED75W-054-C1400-D			91%	●	
		1560	16-48	PLED75W-048-C1560-D			90%	●	
		1790	14-42	PLED75W-042-C1790-D			89%	●	
		2100	12-36	PLED75W-036-C2100-D			89%	●	
		2800	9-27	PLED75W-027-C2800-D			88%	●	
		3130	8-24	PLED75W-024-C3130-D			88%		
		3750	7-20	PLED75W-020-C3750-D			87%		
		5000	5-15	PLED75W-015-C5000-D			86%		
		6250	4-12	PLED75W-012-C6250-D			86%		
<b>V</b>	<b>No</b>	1563-6250	12	PLED75W-012	100-277	75	92%	●	●
		1250-5000	15	PLED75W-015			92%		
		938-3750	20	PLED75W-020			92%		
		783-3130	24	PLED75W-024			91%		●
		700-2800	27	PLED75W-027			91%		
		525-2100	36	PLED75W-036			90%		
		448-1790	42	PLED75W-042			89%		
		390-1560	48	PLED75W-048			89%		
		350-1400	54	PLED75W-054			88%		
		263-1050	72	PLED75W-072			88%		
		175-700	108	PLED75W-108			87%		
		113-450	166	PLED75W-166			86%		
		88-350	214	PLED75W-214			86%		

# 96W



## LED-LT Series

- Line Voltage Dimming
- Universal Input
- OA: 6.34" x 2.40" x 1.50"
- Black Plastic Case

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>Triac</b> <i>For Leading Edge (Incandescent) dimmers</i> <b>&amp;</b> <b>ELV</b> <i>For Trailing Edge (Electronic Low Voltage) dimmers</i>	350	162-274	LED96W-274-C0350-LT	100-277	96	92%		
		700	81-137	LED96W-137-C0700-LT			92%		
		1050	54-92	LED96W-092-C1050-LT			92%		
		1400	41-69	LED96W-069-C1400-LT			91%		
		1750	32-54	LED96W-054-C1750-LT			91%		
		2000	28-48	LED96W-048-C2000-LT			90%		
		2450	23-39	LED96W-039-C2450-LT			90%		
		3150	18-30	LED96W-030-C3150-LT			90%		
		4000	14-24	LED96W-024-C4000-LT			89%		



# 96W



## PLED Series

- Performance
- Black Aluminum Case
- OA: 6.30" x 2.32" x 1.46"

TYPE  
**TL**

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	92-274	PLED96W-274-C0350	100-277	96	92%		
		450	71-213	PLED96W-213-C0450			92%		
		700	46-137	PLED96W-137-C0700			92%		
		1050	31-92	PLED96W-092-C1050			91%		
		1400	23-69	PLED96W-069-C1400			91%		
		1750	18-54	PLED96W-054-C1750			94.5	91%	
		2000	16-48	PLED96W-048-C2000		96	90%		
		2100	16-46	PLED96W-046-C2100			90%		
		2450	14-39	PLED96W-039-C2450			89%		
		2660	12-36	PLED96W-036-C2660			89%		
		2800	12-34	PLED96W-034-C2800			89%		
		3150	10-30	PLED96W-030-C3150			89%		
		3500	9-27	PLED96W-027-C3500			88%		
		3840	9-25	PLED96W-025-C3840			88%		
		4000	8-24	PLED96W-024-C4000			88%		
		4800	7-20	PLED96W-020-C4800			87%		
		5350	6-18	PLED96W-018-C5350			86%		
		<b>C</b>	<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	350			92-274	PLED96W-274-C0350-D	100-277
450	71-213			PLED96W-213-C0450-D	92%	●			
700	46-137			PLED96W-137-C0700-D	92%	●			
1050	31-92			PLED96W-092-C1050-D	91%	●			
1400	23-69			PLED96W-069-C1400-D	91%	●			
1750	18-54			PLED96W-054-C1750-D	94.5	91%	●		
2000	16-48			PLED96W-048-C2000-D	96	90%			
2100	16-46			PLED96W-046-C2100-D		90%	●		
2450	14-39			PLED96W-039-C2450-D		89%	●		
2660	12-36			PLED96W-036-C2660-D		89%			
2800	12-34			PLED96W-034-C2800-D		89%	●		
3150	10-30			PLED96W-030-C3150-D		89%	●		
3500	9-27			PLED96W-027-C3500-D		88%	●		
3840	9-25			PLED96W-025-C3840-D		88%			
4000	8-24			PLED96W-024-C4000-D		88%	●		
4800	7-20			PLED96W-020-C4800-D		87%			
5350	6-18			PLED96W-018-C5350-D		86%			
<b>V</b>	<b>No</b>			1338-5350		18	PLED96W-018	100-277	
		1200-4800	20	PLED96W-020	87%				
		1000-4000	24	PLED96W-024	88%	●	●		
		960-3840	25	PLED96W-025	88%				
		875-3500	27	PLED96W-027	88%				
		788-3150	30	PLED96W-030	89%				
		700-2800	34	PLED96W-034	89%				
		665-2660	36	PLED96W-036	89%				
		613-2450	39	PLED96W-039	89%				
		525-2100	46	PLED96W-046	90%				
		500-2000	48	PLED96W-048	90%				
		438-1750	54	PLED96W-054	91%				
		350-1400	69	PLED96W-069	91%				
		263-1050	92	PLED96W-092	91%				
		175-700	137	PLED96W-137	92%				
		113-450	213	PLED96W-213	92%				
		88-350	274	PLED96W-274	92%				

# 96W



## PLED-HV Series

- High Voltage 277- 480V Input
- Black Aluminum Case
- OA: 5.95" x 2.32" x 1.47"

**TYPE TL**

**TYPE HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	92-274	PLED96W-274-C0350-HV	277-480	96	92%		
		450	71-213	PLED96W-213-C0450-HV			92%		
		700	46-137	PLED96W-137-C0700-HV			92%		
		1050	31-92	PLED96W-092-C1050-HV			91%		
		1400	23-69	PLED96W-069-C1400-HV			91%		
		1750	18-54	PLED96W-054-C1750-HV		94.5	91%		
		2000	16-48	PLED96W-048-C2000-HV		96	90%		
		2100	16-46	PLED96W-046-C2100-HV			90%		
		2450	14-39	PLED96W-039-C2450-HV			89%		
		2660	12-36	PLED96W-036-C2660-HV			89%		
		2800	12-34	PLED96W-034-C2800-HV			89%		
		3150	10-30	PLED96W-030-C3150-HV			89%		
		3500	9-27	PLED96W-027-C3500-HV			88%		
		3840	9-25	PLED96W-025-C3840-HV			88%		
		4000	8-24	PLED96W-024-C4000-HV			88%		
		4800	7-20	PLED96W-020-C4800-HV			87%		
		5350	6-18	PLED96W-018-C5350-HV			86%		
<b>C</b>	<b>0-10V</b>	350	92-274	PLED96W-274-C0350-D-HV	277-480		96	88%	
		450	71-213	PLED96W-213-C0450-D-HV		88%			
		700	46-137	PLED96W-137-C0700-D-HV		86%			
		1050	31-92	PLED96W-092-C1050-D-HV		86%			
		1400	23-69	PLED96W-069-C1400-D-HV		86%			
		1750	18-54	PLED96W-054-C1750-D-HV		85%			
		2000	16-48	PLED96W-048-C2000-D-HV		85%			
		2100	16-46	PLED96W-046-C2100-D-HV		85%			
		2450	14-39	PLED96W-039-C2450-D-HV		84%			
		2660	12-36	PLED96W-036-C2660-D-HV		84%			
		2800	12-34	PLED96W-034-C2800-D-HV		84%			
		3150	10-30	PLED96W-030-C3150-D-HV		84%			
		3500	9-27	PLED96W-027-C3500-D-HV		84%			
		3840	9-25	PLED96W-025-C3840-D-HV		84%			
		4000	8-24	PLED96W-024-C4000-D-HV		81%			
		4800	7-20	PLED96W-020-C4800-D-HV		81%			
		5350	6-18	PLED96W-018-C5350-D-HV		81%			
<b>V</b>	<b>No</b>	1338-5350	18	PLED96W-018-HV	277-480	96	81%		
		1200-4800	20	PLED96W-020-HV			87%		
		1000-4000	24	PLED96W-024-HV			86%		
		960-3840	25	PLED96W-025-HV			87%		
		875-3500	27	PLED96W-027-HV			87%		
		788-3150	30	PLED96W-030-HV			86%		
		700-2800	34	PLED96W-034-HV			85%		
		665-2660	36	PLED96W-036-HV			87%		
		613-2450	39	PLED96W-039-HV			86%		
		525-2100	46	PLED96W-046-HV			87%		
		500-2000	48	PLED96W-048-HV			87%		
		438-1750	54	PLED96W-054-HV			86%		
		350-1400	69	PLED96W-069-HV			85%		
		263-1050	92	PLED96W-092-HV			86%		
		175-700	137	PLED96W-137-HV			86%		
		113-450	213	PLED96W-213-HV			88%		
		88-350	217	PLED96W-274-HV			88%		

# 100W



## LED-WPS1 Series

- True Power Supply
- White Steel Case
- OA: 9.49" x 1.69" x 1.18"

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>V</b>	<b>No</b>	0-4150	24	LED100WPS1-24	120-277	100	88%		●

# 120W



## PLED Series

- Performance
- Black Aluminum Case
- OA: 7.60" x 2.32" x 1.48"

TYPE  
**TL**

TYPE  
**HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	171-343	PLED120W-343-C0350	100-277	120	93%		
		450	133-266	PLED120W-266-C0450			93%		
		700	85-171	PLED120W-171-C0700			93%		
		1050	57-114	PLED120W-114-C1050			92%		
		1400	43-86	PLED120W-086-C1400			92%		
		1750	34-68	PLED120W-068-C1750			92%		
		2100	28-57	PLED120W-057-C2100			92%		
		2450	24-49	PLED120W-049-C2450			92%		
		2800	21-43	PLED120W-043-C2800			91%		
		3150	19-38	PLED120W-038-C3150			91%		
		3500	17-34	PLED120W-034-C3500			91%		
		4200	14-28	PLED120W-028-C4200			91%		
		5000	12-24	PLED120W-024-C5000			89%		
		<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	350	171-343			PLED120W-343-C0350-D	100-277	120
	450		133-266	PLED120W-266-C0450-D	93%				
	700		85-171	PLED120W-171-C0700-D	93%	●			
	1050		57-114	PLED120W-114-C1050-D	92%	●			
	1400		43-86	PLED120W-086-C1400-D	92%	●			
	1750		34-68	PLED120W-068-C1750-D	92%				
	2100		28-57	PLED120W-057-C2100-D	92%	●			
	2450		24-49	PLED120W-049-C2450-D	92%				
	2800		21-43	PLED120W-043-C2800-D	91%	●			
	3150		19-38	PLED120W-038-C3150-D	91%				
	<b>V</b>	<b>No</b>	1250-5000	24	PLED120W-024	100-277	120	89%	●
1050-4200			28	PLED120W-028	91%				
875-3500			34	PLED120W-034	91%				
788-3150			38	PLED120W-038	91%				
700-2800			43	PLED120W-043	91%				
613-2450			49	PLED120W-049	92%				
525-2100			57	PLED120W-057	92%				
438-1750			68	PLED120W-068	92%				
350-1400			86	PLED120W-086	92%				
263-1050			114	PLED120W-114	92%				
175-700			171	PLED120W-171	93%				
113-450			266	PLED120W-266	93%				
88-350			343	PLED120W-343	93%				

# 150W



## PLED Series

- AC or DC input
- Black Aluminum Case
- OA: 7.60" x 2.32" x 1.48

**TYPE TL****TYPE HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM
<b>C</b>	<b>No</b>	350	142-428	PLED150W-428-C0350	100-277	150	92%		
		450	111-333	PLED150W-333-C0450			92%		
		530	95-283	PLED150W-283-C0530			91%		
		700	72-214	PLED150W-214-C0700			91%		
		1050	48-142	PLED150W-142-C1050			91%		
		1400	36-107	PLED150W-107-C1400			91%		
		1750	29-85	PLED150W-085-C1750			90%		
		2100	24-71	PLED150W-071-C2100			90%		
		2450	21-61	PLED150W-061-C2450			90%		
		2800	18-53	PLED150W-053-C2800			90%		
		3150	16-48	PLED150W-048-C3150			89%		
		3500	14-42	PLED150W-042-C3500			89%		
		4200	12-35	PLED150W-035-C4200			89%		
		4900	10-30	PLED150W-030-C4900			88%		
		6250	8-24	PLED150W-024-C6250			88%		
		<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	350	142-428			PLED150W-428-C0350-D	100-277	150
	450		111-333	PLED150W-333-C0450-D	92%				
	530		95-283	PLED150W-283-C0530-D	91%				
	700		72-214	PLED150W-214-C0700-D	91%	●			
	1050		48-142	PLED150W-142-C1050-D	91%				
	1400		36-107	PLED150W-107-C1400-D	91%				
	1750		29-85	PLED150W-085-C1750-D	90%				
	2100		24-71	PLED150W-071-C2100-D	90%	●			
	2450		21-61	PLED150W-061-C2450-D	90%				
	2800		18-53	PLED150W-053-C2800-D	90%	●			
	3150		16-48	PLED150W-048-C3150-D	89%				
	3500		14-42	PLED150W-042-C3500-D	89%				
	<b>V</b>	<b>No</b>	1563-6250	24	PLED150W-024	100-277	150	88%	
1225-4900			30	PLED150W-030	88%				
1050-4200			35	PLED150W-035	89%				
875-3500			42	PLED150W-042	89%				
788-3150			48	PLED150W-048	89%				
700-2800			53	PLED150W-053	90%				
613-2450			61	PLED150W-061	90%				
525-2100			71	PLED150W-071	90%				
438-1750			85	PLED150W-085	90%				
350-1400			107	PLED150W-107	91%				
263-1050			142	PLED150W-142	91%				
175-700			214	PLED150W-214	91%				
133-530			283	PLED150W-283	91%				
113-450			333	PLED150W-333	92%				
88-350			428	PLED150W-428	92%				

# 200W



## PLED Series

- Performance
- Black Aluminum Case
- OA: 9.32" x 2.32" x 1.48

**TYPE TL****TYPE HL**

Constant Current or Voltage	Dimming	Output Current (mA) <i>(range if CV)</i>	Output Voltage (VDC) <i>(range if CC)</i>	Catalog Number	Nominal Input Voltage (Vac)	Max Output Power (Watts)	Efficiency	In Stock (typical)	SAM			
<b>C</b>	<b>No</b>	450	149-445	PLED200W-445-C0450	100-277	200	93%					
		700	95-285	PLED200W-285-C0700			93%					
		1050	64-190	PLED200W-190-C1050			93%					
		1400	48-142	PLED200W-142-C1400			93%					
		1750	38-114	PLED200W-114-C1750			92%					
		2100	32-95	PLED200W-095-C2100			92%					
		2450	27-81	PLED200W-081-C2450			92%					
		2800	24-71	PLED200W-071-C2800			91%					
		3150	21-63	PLED200W-063-C3150			91%					
		3500	19-57	PLED200W-057-C3500			91%					
		4200	16-47	PLED200W-047-C4200			91%					
		4900	14-40	PLED200W-040-C4900			91%					
		5600	12-35	PLED200W-035-C5600			91%					
		6300	11-32	PLED200W-032-C6300			91%					
		8330	8-24	PLED200W-024-C8330			90%					
		<b>0-10V</b> <i>Optional: 3-wire (-D3)</i>	450	149-445			PLED200W-445-C0450-D	100-277	200	93%		
			700	95-285			PLED200W-285-C0700-D			93%	●	
			1050	64-190			PLED200W-190-C1050-D			93%	●	
	1400		48-142	PLED200W-142-C1400-D	93%	●						
	1750		38-114	PLED200W-114-C1750-D	92%							
	2100		32-95	PLED200W-095-C2100-D	92%	●						
	2450		27-81	PLED200W-081-C2450-D	92%							
	2800		24-71	PLED200W-071-C2800-D	91%							
	3150		21-63	PLED200W-063-C3150-D	91%							
	3500		19-57	PLED200W-057-C3500-D	91%							
	4200		16-47	PLED200W-047-C4200-D	91%							
	4900		14-40	PLED200W-040-C4900-D	91%							
	5600		12-35	PLED200W-035-C5600-D	91%							
	6300		11-32	PLED200W-032-C6300-D	91%							
	8330		8-24	PLED200W-024-C8330-D	90%							
	<b>V</b>		<b>No</b>	2083-8330	24	PLED200W-024	100-277			200	90%	●
		1575-6300		32	PLED200W-032	91%						
		1400-5600		35	PLED200W-035	91%						
		1225-4900		40	PLED200W-040	91%						
1050-4200		47		PLED200W-047	91%							
875-3500		57		PLED200W-057	91%							
788-3150		63		PLED200W-063	91%							
700-2800		71		PLED200W-071	91%							
613-2450		81		PLED200W-081	92%							
525-2100		95		PLED200W-095	92%							
438-1750		114		PLED200W-114	92%							
350-1400		142		PLED200W-142	93%							
163-1050		190		PLED200W-190	93%							
175-700		285		PLED200W-285	93%							
113-450		445		PLED200W-445	93%							

# SURGE PROTECTORS

TRP's most effective surge protectors advance the lighting industry. They provide LED Drivers with an additional level of protection from dangerous power-line disturbances in industrial and commercial settings. Perfect for critical 24/7 applications.

- Protects Line-Ground, Line-Neutral & Neutral-Ground in accordance with IEEE / ANSI C62.41.2 guidelines
- High-temp, flameproof plastic enclosure with 85°C max surface rating
- Surge Location Rated Category C3
- Operate on AC or DC circuits

## BSP3

- 10,000 Amp protection for 120 to 480V power
- 1.55" Ø x 2.82" Nom, three leads



BSP3 Model	Max Mains Voltage	Max Clamping Voltage 8/20 µs @ 10kA	UL1449	UL935/UL1029	Pulse Rating	
					Strikes	Surge
BSP3-120	120	600			1	10,000 A
BSP3-208/240	240	1000			2	6,500 A
BSP3-277	277	1500	✓	✓	10	3,000 A
BSP3-347	347	1900		✓	100	1,500 A
BSP3-480	480	2500	✓	✓		

## BSP3 (LC)

- Same protection in low-cost, compact housing
- 1.55" Ø x 1.51" Nom, three leads

BSP3 (LC) Model	Max Mains Voltage	Max Clamping Voltage 8/20 µs @ 10kA	UL1449	UL935/UL1029	Pulse Rating	
					Strikes	Surge
BSP3-120 (LC)	120	600			1	10,000 A
BSP3-208/240(LC)	240	1000			2	6,500 A
BSP3-277 (LC)	277	1500	✓	✓	10	3,000 A
BSP3-347 (LC)	347	1900		✓	100	1,500 A
BSP3-480 (LC)	480	2500	✓	✓		

## BSP3-20KA

- 20,000 Amp protection for 277V or 480V power
- Available "TN" option includes threaded nipple
- 1.55" Ø x 2.25" Nom, three leads

BSP3-20KA Model	Mains Voltage	Max Clamping Voltage 8/20 µs @ 20kA	UL1449	Pulse Rating	
				Strikes	Surge
BSP3-277-20KA	100-277	2600	✓	1	20,000 A
BSP3-480-20KA	480	3800	✓	2	15,000 A
				15	10,000 A
				120	3,000 A

## FSP3-277-20KA, FSP3-480-20KA

- Includes In-line fusing
- **Operating Indicator:** Green LED lights up to show unit is functioning. Unlit indicates unit needs replacing.
- NI option eliminates indicator
- At End-of-Life, turns off the fixture
- 20,000 Amp protection for 277V or 480V power
- 7.0 Amp maximum load
- 1.89" Ø x 2.95" Nom
- Patent Pending



FSP3-277-20KA Model	Mains Voltage	Max Clamping Voltage 8/20 µs @ 20kA	UL1449	LED Indicator	Pulse Rating	
					Strikes	Surge
FSP3-277-20KA	100-277	2600	✓	Local	1	20,000 A
FSP3-277-20KA-NI	100-277	2600	✓	none	2	15,000 A
FSP3-480-20KA	480V	3800	✓	Local	15	10,000 A
FSP3-480-20KA-NI	480V	3800	✓	none	120	3,000 A

**TEST QUALIFIED FOR TEXAS DOT, DEPARTMENTAL MATERIALS SPECIFICATION FOR LED ROADWAY LIGHTING**

## EOL3-277-20KA

- Includes In-line fusing
- **End-of-Life Indicator:** Blue LED lights up when unit needs to be replaced.
- LED indicator flashes at "power-up" to confirm that LED is functional.
- At End-of-Life, turns off the fixture
- Two models:
  - L model includes local LED indicator
  - R model operates a remote-mounted LED indicator (*purchased separately*)
- 20,000 Amp protection for 277V power
- 7.0 Amp maximum load
- 1.89" Ø x 3.44" Nom
- Patent Pending



EOL3-277-20KA Model	Mains Voltage	Max Clamping Voltage 8/20 µs @ 20kA	UL1449	LED Indicator	Pulse Rating	
					Strikes	Surge
EOL3-277-20KA-L	100-277	2600	✓	Local	1	20,000 A
EOL3-277-20KA-R	100-277	2600	✓	Remote	2	15,000 A
EOL3-LED-18-B	LED (blue) assembly with 18" leads				15	10,000 A
					120	3,000 A

## SSP3

- Low Profile
- Cost-effective 3 point protection.
- Universal input voltage ranges: up to 277V or 480V
- UL1449 Type 5 Recognized Component.
- At end-of-life, individual surge protection elements will be in short circuit mode for one or more coupling modes
- 20,000 Amp protection for 277V or 480V power



SSP3 Model	Mains Voltage	Line-Neutral	Line-Ground	Neutral-Ground	UL1449
		Max Clamping Voltage 8/20 µs @ 20kA	Max Clamping Voltage 8/20 µs @ 12kA		
SSP3-277	100-277	2600	1800		✓

SSP3 Model	Mains Voltage	Phase1-Phase2	Phase1-Ground	Phase2-Ground	UL1449
		Max Clamping Voltage 8/20 µs @ 20kA	Max Clamping Voltage 8/20 µs @ 12kA		
SSP3-480	347-480	3800	2700		✓

Line-Neutral		Line-Ground		Phase1-Phase2		Phase1-Ground	
Pulse Rating		Pulse Rating		Pulse Rating		Pulse Rating	
Strikes	Surge	Strikes	Surge	Strikes	Surge	Strikes	Surge
1	20,000 A	1	12,000 A	1	20,000 A	1	12,000 A
2	15,000 A	2	8,000 A	2	15,000 A	2	6,000 A
15	10,000 A	100	3,000 A	15	10,000 A	40	3,000 A
100	3,000 A	1600	750 A	100	3,000 A	1600	750 A

# STEP-DOWN AUTO TRANSFORMERS

## F-CAN STYLE

Allow 100-277V Universal Voltage LED drivers to run on 347-480V mains. Also for Electronic Fluorescent & HID Ballasts.

- UL Listed
- Thermally protected.

Model	Input	Output	VA Rating	Dimensions
480V:277-250VA-L	347-480V	277V/200V	250	9.45" x 1.69" x 1.22"
480V:277-375VA-L	347-480V	277V/200V	375	11.69" x 1.69" x 1.22"



## TRADITIONAL STYLE

Allow 100-277V LED drivers to run on 347-480V mains. Also for Electronic Fluorescent & HID Ballasts. Step-up transformers are also available.

Model	Input	Output	VA Rating	Dimensions
480:347:277-125VA	347-480V	277V	125	3.74" x 2.56" x 2.36"
480:347:277:220-245VA	347-480V	277V & 220V	245	3.39" x 3.07" x 3.34"
480:347:277-460VA	347-480V	277V	460	3.82" x 3.34" x 3.74"



## STEP-DIMMING MODULES

Use two standard wall switches for quick switching between light levels in 120V applications. Eliminates the need for dimming switches. Works with occupancy sensors.

- Compatible with TRP 0-10V dimmable LED drivers
- IP66
- 3.35" x 1.42" x 0.75"



Model	Output Levels	Max Pass Current	LED Driver Max Power	Insertion Loss
SD2-120	50-100%	1.0 A	100W	<1.5W
SD3-25-120	25-50-100%	1.0 A	100W	<1.5W
SD3-33-120	33-66-100%	1.0 A	100W	<1.5W

# THOMAS RESEARCH PRODUCTS LIMITED WARRANTY

Thomas Research Products warrants to the Purchaser that its LED drivers, surge protectors, and lighting transformers will be free from defects in material and workmanship and will be of the designated kind and quality for five years from the date of manufacture. (EXCEPT: BLED Drivers, which are two years.) All other electronic circuits will be free from defects in material and workmanship and will be of the designated kind and quality for one year from the date of manufacture.

This warranty is not applicable to any circuit not installed and operated in accordance with the current edition of National Electrical Code and Underwriters Laboratories, Inc. Standards for Safety.

If it appears within our circuit warranty period that any circuit does not meet the warranty specified above, the Purchaser must notify in writing by United States mail of its warranty claim and return the circuits promptly at Purchaser's expense to Thomas Research Products. Thomas Research Products shall thereupon at Thomas Research Products expense, make available a repaired or new replacement part.

NO IMPLIED STATUTORY WARRANTY OR IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED CIRCUIT WARRANTY PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

The foregoing warranty is exclusive of all other statutory, written or oral warranties and no other warranties of any kind, statutory or otherwise, are given or herein expressed.

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UNDER NO CIRCUMSTANCES, WHETHER AS A RESULT OF BREACH OF CONTRACT, BREACH OF WARRANTY, TORT, STRICT LIABILITY OR OTHERWISE WILL THOMAS RESEARCH PRODUCTS BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROPERTIES, LOSS OF USE OR DAMAGE TO ANY PROPERTY OR EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES OR SERVICES, DOWNTIME COSTS OR CLAIMS OF PURCHASER'S CUSTOMERS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.



# INNOVATION IN ILLUMINATION

## Product Lines:

### **SelectSYNC™ LED Drivers**

- Intelligent Programmable Drivers
- Dynamic Programmable Drivers
- Classic Fixed Output Drivers

### **Lighting Controls**

- Intelligent Wireless Lighting Controls
- Classic Energy-saving Controls
- Classic Lighting Step-down Transformers
- Classic HID Quartz Restrike Controllers

### **Surge Protectors**

- Classic Surge Protectors
- Classic Low Profile Surge Protectors

### **Light Engines**

- Classic LED Light Engines
- Custom LED Light Engines

## **A Name You Can Trust**

Thomas Research Products provides complete component solutions for OEMs utilizing LEDs. Products include high-performing LED drivers, LED light engines, surge protectors and lighting controls. The company also offers Norlux brand custom design, testing and manufacturing services.

Founded in 1997, Thomas Research Products is a division of Hubbell Lighting, one of the largest lighting manufacturers in North America. Hubbell Lighting brands offer products for commercial, industrial and residential markets. The company's history of innovation extends back to 1886 and Harvey Hubbell's invention of the very first lighting control device—the pull chain switch.



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