

OMNIDRIVE[®] Electronic Dimmable Driver

COMPATIBILITY LIST

To ensure a safe installation and optimal lighting/dimming performance, source the exact dimming control model numbers that appear on this list. Read all footnotes for additional information. Please contact the dimmer switch manufacturer with inquiries about dimmer color/finish options.

1 DO NOT EXCEED THE LED LOAD CAPACITY.

Load Capacity ¹

120V / 600W INC / 150W LED

2 LOAD DRIVER MINIMUM 60% WHEN INSTALLING WITH A DIMMING CONTROL.

OMNIDRIVE [®] Model	10W	20W	30W	45W	60W	80W	120W
Min Load With Dim Control	6W	12W	18W	27W	36W	48W	72W
Min Load With ON/OFF Switch (No Dim Control)	None						

COMPATIBLE CONTROLS FOR 10W & 20W OMNIDRIVE[®] MODELS*

Single Pole	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
FORBES & LOMAX MLV Rotary Dimmer	FLRLV603P	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 150W LED Load	≥60% Driver Capacity	100 - 5%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
FORBES & LOMAX Inc/Hal Rotary Dimmer	FLR603P	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 150W LED Load	≥60% Driver Capacity	100 - 5%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron [®] Glyder [®] INC/HAL Slide-to-Off Dimmer	GL-600P	Single Pole	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 13%	No
	Notes: None.					
Lutron [®] Glyder [®] MLV Slide-to-off Dimmer	GLV-600	Single Pole	120V / 450W INC / 112.5W LED	≥60% Driver Capacity	100 - 8%	No
	Notes: None.					
Lutron [®] Nova [®] MLV Slide-to-off Dimmer	NLV-600	Single Pole	120V / 450W INC / 112.5W LED	≥60% Driver Capacity	100 - 13 %	Yes
	NLV-1000	Single Pole	120V / 800W INC / 200W LED			
	NLV-1500	Single Pole	120V / 1200W INC / 300W LED			
	Notes: None.					

* Best performing controls for 10W & 20W OMNIDRIVE models are listed above. Dimmers compatible with OMNIDRIVE models ≥30W are also suitable for 10W & 20W models, but due to small load size the dimmer may emit a pop-on effect when preset to a low brightness and switched on.

COMPATIBLE CONTROLS FOR 30W, 45W, 60W, 80W & 120W OMNIDRIVE® MODELS

Single Pole & 3-Way	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
FORBES & LOMAX MLV Rotary Dimmer	FLRLV603P	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 150W LED Load	≥60% Driver Capacity	100 - 5%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
FORBES & LOMAX Inc/Hal Rotary Dimmer	FLR603P	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 150W LED Load	≥60% Driver Capacity	100 - 5%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Ariadni®/ Toggler® C•L Preset Dimmer	AYCL-153P	Single Pole / 3-Way Trim-Adjustable	120V / 150W LED	≥60% Driver Capacity	100 - 13%	No
	AYCL-253P	Single Pole / 3-Way Trim-Adjustable	120V / 250W LED			
	TGCL-153P	Single Pole / 3-Way Trim-Adjustable	120V / 150W LED			
	TGCL-253P	Single Pole / 3-Way Trim-Adjustable	120V / 250W LED			
Notes: Adjust minimum trim to optimize dimming performance.						
Lutron® Ariadni®/ Toggler® INC/HAL Preset Dimmer	AY-600P	Single Pole	120V / 600W Inc / 150W LED	≥60% Driver Capacity	100 - 21%	No
	AY-603P	Single Pole / 3-Way	120V / 600W Inc / 150W LED			
	AY-10P	Single Pole	120V / 1000W Inc / 250W LED			
	AY-103P	Single Pole / 3-Way	120V / 1000W Inc / 250W LED			
Notes: None.						
Lutron® Ariadni®/ Toggler® MLV Preset Dimmer	AYLV-600P	Single Pole	120V / 450W Inc / 112.5W LED	≥60% Driver Capacity	100 - 21%	No
	AYLV-603P	3-Way	120V / 450W Inc / 112.5W LED			
Notes: None.						
Lutron® Caseta™ Wireless CFL/HAL/ INC/LED Dimmer with Pico® Remote	PD-6WCL	Single Pole In-Wall Dimmer	120V / 600W Inc / 150W LED	≥60% Driver Capacity	100- 18%	No
	Notes: Compatible with Wink HUB.					
Lutron® Diva® C•L Preset Dimmer	DVCL-153P	Single Pole / 3-Way Trim-Adjustable	120V / 150W LED Load	≥60% Driver Capacity	100 - 21%	No
	DVCL-253P	Single Pole / 3-Way Trim-Adjustable	120V / 250W LED Load			
Notes: Adjust minimum trim to optimize dimming performance.						
Lutron® Diva® Inc/Hal Preset Dimmer	DV-600P	Single Pole	120V / 600W Inc / 150W LED	≥60% Driver Capacity	100 - 21%	No
	DV-603P	3-Way	120V / 600W Inc / 150W LED			
	DV-10P	Single Pole	120V / 1000W Inc / 250W LED			
	DV-103P	3-Way	120V / 1000W Inc / 250W LED			
Notes: None.						

COMPATIBLE CONTROLS FOR 30W, 45W, 60W, 80W & 120W OMNIDRIVE® MODELS

Single Pole & 3-Way	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Lutron® Diva® MLV Preset Dimmer	DVLV-600P	Single Pole	120V / 450W Inc / 112.5W LED	≥60% Driver Capacity	100 - 21%	No
	DVLV-603P	Single Pole / 3-Way	120V / 450W Inc / 112.5W LED			
	DVLV-10P	Single Pole	120V / 800W Inc / 200W LED			
	DVLV-103P	Single Pole / 3-Way	120V / 800W Inc / 200W LED			
	Notes: None.					
Lutron® Glyder® INC/HAL Slide-to-Off Dimmer	GL-600P	Single Pole	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 13%	No
	GL-603P	Single Pole / 3-Way	120V / 600W INC / 150W LED			
	GL-10P	Single Pole / 3-Way	120V / 1000W INC / 250W LED			
	GL-103P	Single Pole / 3-Way	120V / 1000W INC / 250W LED			
	Notes: None.					
Lutron® Glyder® MLV Slide-to-off Dimmer	GLV-600	Single Pole	120V / 450W INC / 112.5W LED	≥60% Driver Capacity	100 - 8%	No
	Notes: None.					
Lutron® Nova® MLV Slide-to-off Dimmer	NLV-600	Single Pole	120V / 450W INC / 112.5W LED	≥60% Driver Capacity	100 - 13 %	Yes
	NLV-1000	Single Pole	120V / 800W INC / 200W LED			
	NLV-1500	Single Pole	120V / 1200W INC / 300W LED			
	Notes: Incompatible with 120W OMNIDRIVE Model.					
Lutron® Skylark® Inc/Hal Preset Dimmer *	S-600P	Single Pole	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 14 %	No
	S-603P	Single Pole / 3-Way	120V / 600W INC / 150W LED			
	S-10P	Single Pole	120V / 1000W INC / 250W LED			
	S-103P	Single Pole / 3-Way	120V / 1000W INC / 250W LED			
	Notes: None.					
Lutron® Skylark Contour® Inc/Hal Preset Dimmer	CT-600P	Single Pole	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 15%	No
	CT-603P	Single Pole / 3-Way	120V / 600W INC / 150W LED			
	CT-103P	Single Pole / 3-Way	120V / 1000W INC / 250W LED			
	Notes: None.					

COMPATIBLE CONTROLS FOR 30W, 45W, 60W, 80W & 120W OMNIDRIVE® MODELS

Single Pole & 3-Way	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Leviton® Sureslide® MLV Preset Dimmer	6613-P	Single Pole / 3-Way	120V / 450W INC / 112.5W LED	≥60% Driver Capacity	100 - 10%	No
	Notes: Incompatible with 120W OMNIDRIVE Model.					
Leviton® Vizia+™ INC/MLV Preset Dimmer	VPM10	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 14%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Leviton® Toggle Touch™ MLV Preset Dimmer	TGM10	Single Pole / 3-Way	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 4%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Legrand® Paddle™ INC/CFL/LED Preset Dimmer	ADPD453L	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 450W LED	≥60% Driver Capacity	100 - 35%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Legrand® Paddle™ INC/HAL Dimmer	ADPD1103H	Single Pole / 3-Way Trim-Adjustable	120V / 1100W INC / 275W LED	≥60% Driver Capacity	100 - 20%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Legrand® SofTap™ INC/ELV/MLV/CFL/LED Preset Dimmer	ADTP703TU	Single Pole / 3-Way Trim-Adjustable	120V / 600W INC / 450W LED Load	≥60% Driver Capacity	100 - 20%	No
	Notes: Adjust minimum trim to optimize dimming performance.					
Legrand® PASS & SEYMOUR Harmony™ CFL/LED Preset Dimmer	HCL453PW	Single Pole / 3-Way Trim-Adjustable	120V / 450W LED Load	≥60% Driver Capacity	100 - 22%	No
	Notes: Adjust minimum trim to optimize dimming performance.					

Multi-Location & Home Automation	Model #	Description	LED Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Control 4® Wireless Dimmer	LDZ-101-X	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 18%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Crestron® iLux® Universal Dimmer Expansion Module	CLS-EXP-DIMU	Dimmer Expansion Module	120V / 1920W INC 480W LED	≥60% Driver Capacity	100 - 12%	Yes
	Notes: SET TO FORWARD PHASE ONLY. Enforce min level to allow the fixture to turn on and to avoid flicker at low dimming levels. Enforce max level to avoid dead travel at high end.					
Crestron® DIN Rail 4-Channel Dimmer	DIN-1DIM4	Multi-Location Rail Dimmer	120V / 600W INC Per Channel 150W LED Per Channel	≥60% Driver Capacity	100 - 13%	Yes
	Notes: Enforce min level to allow the fixture to turn on and to avoid flicker at low dimming levels. Enforce max level to avoid dead travel at high end.					
Crestron® DIN Rail 4-Channel Universal Dimmer	DIN-1DIMU4	Multi-Location Rail Dimmer	120V / 600W INC Per Channel 150W LED Per Channel	≥60% Driver Capacity	100 - 16%	Yes
	Notes: Enforce min level to allow the fixture to turn on and to avoid flicker at low dimming levels. Enforce max level to avoid dead travel at high end.					

COMPATIBLE CONTROLS FOR 30W, 45W, 60W, 80W & 120W OMNIDRIVE® MODELS

Multi-Location & Home Automation	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Crestron® 6-Channel Dimmer Module	GLX-DIM6	Multi-Location Dimmer Module	120V / 1920W INC 480W LED Per Channel	≥60% Driver Capacity	100 - 10%	Yes
	Notes: Enforce min level to allow the fixture to turn on and to avoid flicker at low dimming levels. Enforce max level to avoid dead travel at high end.					
Crestron® 8-Channel Dimmer Module	GLXX-2DIM8	Multi-Location Dimmer Module	120V / 1920W INC 480W LED Per Channel	≥60% Driver Capacity	100 - 10%	Yes
	Notes: Enforce min level to allow the fixture to turn on and to avoid flicker at low dimming levels. Enforce max level to avoid dead travel at high end.					
Legrand® Touch™ Wireless Dimmer	ADTH700MMTU	Multi-Location (RF) Trim-Adjustable	120V / 700W INC / 450W LED	≥60% Driver Capacity	100 - 39%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Leviton® Vizia rf+™ LED/CFL/INC/HAL Preset Dimmer	DZMX1-1L	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 450W LED	≥60% Driver Capacity	100 - 14%	Yes
	Notes: Adjust minimum trim to optimize dimming performance. Compatible with Wink HUB and all Z-Wave® controllers.					
Lutron® Grafik Eye® 3000	GRX-3102	2 - Zone Control	120V / 800W INC per Zone/ 200W LED per Zone	≥60% Driver Capacity	100 - 22%	Yes
	GRX-3103	3- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	GRX-3104	4- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	GRX-3106	6- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Grafik Eye® QS (Non-RF)	QSGR-3P	3- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone	≥60% Driver Capacity	100 - 22%	Yes
	QSGR-4P	4- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	QSGR-6P	6- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	QSGR-8P	8- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Grafik Eye® QS Wireless (RF)	QSGRJ-3P	3- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone	≥60% Driver Capacity	100 - 22%	Yes
	QSGRJ-4P	4- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	QSGRJ-6P	6- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	QSGRJ-8P	8- Zone Control	120V / 800W INC per Zone/ 200W LED per Zone			
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Maestro® Wireless Inc/MLV Dimmer	MRF2-6ND-120	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 11%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					

COMPATIBLE CONTROLS FOR 30W, 45W, 60W, 80W & 120W OMNIDRIVE® MODELS

Multi-Location & Home Automation	Model #	Description	Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Lutron® Maestro® Wireless ELV Dimmer	MAELV-600	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 14%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Maestro® Wireless ELV Dimmer	MRF2-6ELV-120	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 8%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® RadioRA2® MLV Dimmer	RRD-10ND	Multi-Location (RF) Trim-Adjustable	120V / 1000W INC / 250W LED	≥60% Driver Capacity	100 - 12%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® RadioRA2® Phase-Adaptive Dimmer	RRD-6NA	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 12%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Maestro® Wireless Inc/MLV Dimmer	MRF2-6ND-120	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 11%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
Lutron® Vareo® MLV Preset Dimmer	V-600	Single Pole / Multi-Location Switching	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 14%	No
	V-1000	Single Pole / Multi-Location Switching	120V / 1000W INC / 250W LED	≥60% Driver Capacity	100 - 14%	No
	Notes: Incompatible with 120W OMNIDRIVE Model. Adjust minimum trim to optimize dimming performance.					
SmartHome™ SwitchLinc™ Dimmer	2477D	Multi-Location (RF) Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 26%	Yes
	Notes: Adjust minimum trim to optimize dimming performance.					
VANTAGE Decorator RFLC Universal Dimmer	DRD4	Multi-Location (RF)	Contact VANTAGE	≥60% Driver Capacity	100 - 3%	Yes
	Notes: Contact VANTAGE for further information at 1.800.555.9891.					
VANTAGE Infusion Standard Dimmer Module	SDM12-EM	Multi-Location Trim-Adjustable	Contact VANTAGE	≥60% Driver Capacity	100 - 4%	Yes
	Notes: Contact VANTAGE for further information at 1.800.555.9891.					

Occupancy Sensor Controls	Model #	Description	LED Load Capacity ¹	Min Load	Dimming Range ²	Neutral Required?
Leviton® Decora® Motion Sensor Switch	IPSO2	Single Pole	120V / 300W INC / 150W LED	None	Switching Only	No
	Notes: This is an occupancy sensor switch, not a dimming control. Automatically, or manually turns lights On/Off.					
Lutron® Maestro® Occupancy Sensor Switch	MS-OPSS5MH	Single Pole / 3-Way	120V / 600W INC / 360W LED	None	Switching Only	No
	Notes: This is an occupancy sensor switch, not a dimming control. Automatically, or manually turns lights On/Off.					
Lutron® Maestro® C•L Occupancy Sensor Dimmer	MSCL-OP153MH	Multi-Location Trim-Adjustable	120V / 600W INC / 150W LED	≥60% Driver Capacity	100 - 12%	Yes
	Notes: Adjust minimum trim to optimize dimming performance. Automatically, or manually turns lights On/Off.					

NOTES

Note¹ It's important to not load the dimming control more than the LED load capacity listed on this compatibility list. LED loads may exhibit an inrush current when switched on, which may overload the dimming control. These LED loads have been pre-calculated for easy reference (they are not listed on the dimming control unless advertised as an LED control). As a general rule of thumb, use the following formula to calculate the maximum LED load for all brands of compatible Incandescent (INC), Halogen (HAL), Magnetic Low Voltage (MLV), or Electronic Low Voltage (ELV) dimming controls:

$$L_{LED\ load} = D_{Dimmer\ load} \times .25$$

For example, let's calculate the LED load for the Lutron Diva INC/HAL Preset Dimmer (DV-600P). This dimmer has a 600W incandescent load.

$$L_{LED\ load} = 600W \times .25 = 150W$$

Note² Dimming Range is based on the minimum and maximum measured lux (lx) values of the dimming control.

VOLTAGE DROP CHARTS

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

Example: 12V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .83 A	20 W 1.7 A	30 W 2.5 A	40 W 3.3 A	50 W 2.1 A	60 W 4.2 A
18 AWG	34 ft.	17 ft.	11 ft.	8 ft.	6 ft.	5 ft.
16 AWG	54 ft.	27 ft.	18 ft.	13 ft.	10 ft.	9 ft.
14 AWG	86 ft.	43 ft.	29 ft.	21 ft.	17 ft.	14 ft.
12 AWG	134 ft.	68 ft.	45 ft.	34 ft.	27 ft.	22 ft.
10 AWG	199 ft.	99 ft.	66 ft.	49 ft.	39 ft.	33 ft.

①

Determine load size. Let's assume load is 55 W. Round up to nearest load.

②

Determine distance from driver to load. Let's assume the distance is 20 ft.

③

It's recommended to install 12 AWG to eliminate excess voltage drop.

12V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .83 A	20 W 1.7 A	30 W 2.5 A	40 W 3.3 A	50 W 2.1 A	60 W 4.2 A
18 AWG	34 ft.	17 ft.	11 ft.	8 ft.	6 ft.	5 ft.
16 AWG	54 ft.	27 ft.	18 ft.	13 ft.	10 ft.	9 ft.
14 AWG	86 ft.	43 ft.	29 ft.	21 ft.	17 ft.	14 ft.
12 AWG	134 ft.	68 ft.	45 ft.	34 ft.	27 ft.	22 ft.
10 AWG	199 ft.	99 ft.	66 ft.	49 ft.	39 ft.	33 ft.

24V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .42 A	20 W .83 A	30 W 1.3 A	40 W 1.7 A	50 W 2.1 A	60 W 2.5 A	70 W 2.9 A	80 W 3.3 A	100 W 4.2 A
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	14 ft.
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	22 ft.
14 AWG	345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	36 ft.
12 AWG	539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	56 ft.
10 AWG	784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	82 ft.

ADDITIONAL RESOURCES

Visit the online product page at www.DiodeLED.com for additional resources including:

- **OMNIDRIVE® Specification Sheet**
For full specifications.
- **OMNIDRIVE® Installation Guide**
For system diagrams and full installation instructions.



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