INSTALLATION INSTRUCTIONS

BEFORE YOU BEGIN

- **Read and follow all instructions**
- **Installation must comply with the NEC**
- **Installation work and electrical wiring should be done by a qualified person(s) in accordance with all applicable codes and standards.**
- **Ensure the unit has input, output voltage and output wattage proper for yoru application.**

GC-FCV/GC-FCVM
5 in 1 Dimmable LED Driver

12/24/48VDC
30W 60W 80W 96W
100W 120W 150W 180W 192W 200W
288W 300W 384W

Precautions Before Installing

Check the label and ensure the transformer has the proper input voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this installation guide.

Mounting

The LED driver must be mounted in at least 5” of a free flow air space for proper ventilation.The LED driver must never be mounted next to or above heat radiated objects.The Maximum ambient temperature should not exceed 50 deg.C (122 deg.F)
If you are installing multiple drivers, keep a minimum space of 5” Inch between each driver.
SUITALE FOR DRY, DAMP AND WET LOCATIONS.

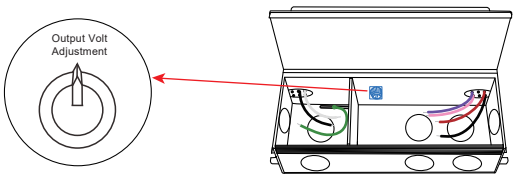
Input Connections / Grounding

Remove the wiring compartment knockouts and install strain reliefs. With power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections use only UL listed wire nuts and connectors of suitable size and type. The transformer case MUST be grounded in accordance with the N.E.C. Connect the ground wire to the transformer green wire.

Output Connections

Bring the wires of the light fixture through the other open knockout and connect them to the transformer’s lead wires, V+ to Red, V- to Black. Make sure all your connections are tight.

Function Introduction



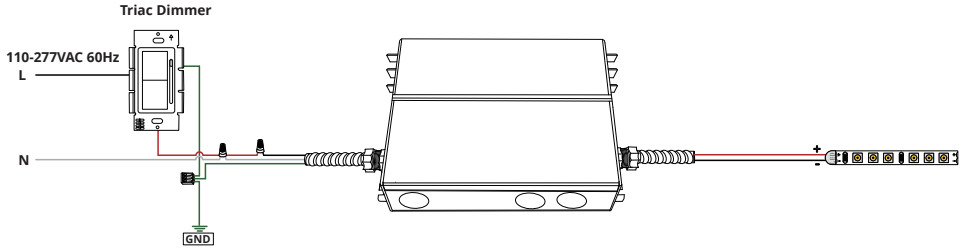
Fine Tunning the Output Voltage

See below:
12V Ouput: 9V-13V
24V Output: 17V-25V
48V Output: 36V-49V

Wiring Diagram

A. MLV TRIAC (Leading Edge) Dimmer Wiring Diagram

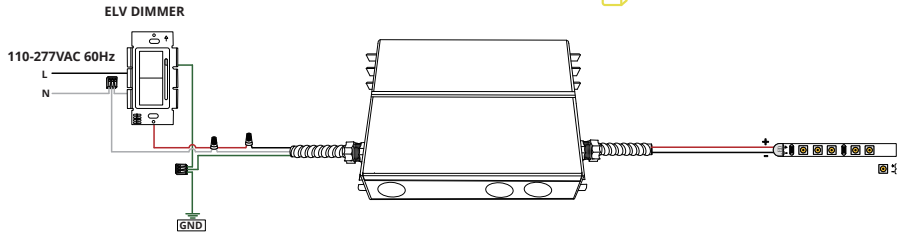
The Minimum load 10-100%



DIMMER COMPATIBILITY

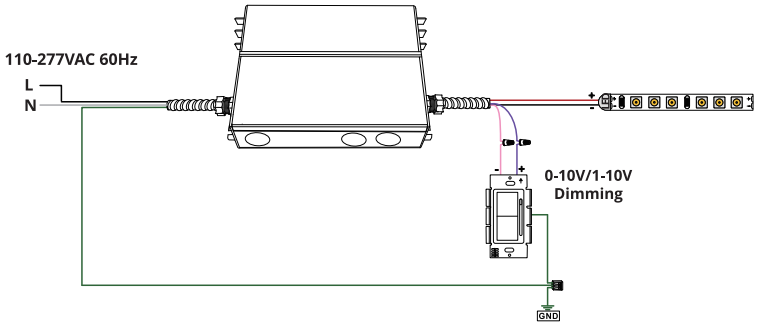
B. Electronic Low Voltage (ELV) Dimmer Wiring Diagram

The Minimum load 10-100%



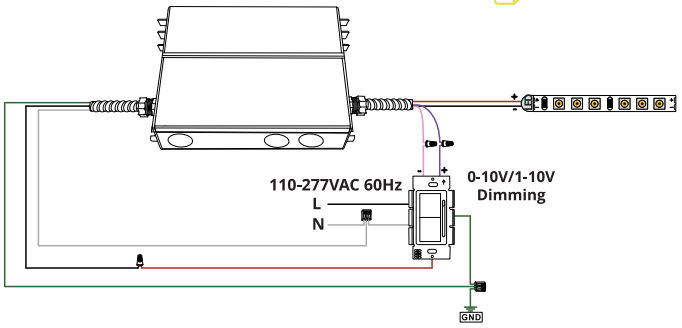
C. 0-10V/1-10V Dimmer Wiring Diagram
(The driver is independently connected to the input.)

The Minimum load 10-100%



D. 0-10V/1-10V Dimmer Wiring Diagram
(The driver input is connected to the dimmer.)

The Minimum load 10-100%



Dimming

Please visit Page 3-5 for a full dimmer compatibility list.

DIMMER COMPATIBILITY

Brand	Model No.	Input Voltage	Compatibility	Dimming Range	Type
LUTRON	SCL-153PR-WH	120V	OK	0-100%	MLV/TRIAC
	DVCL-153PR-WH	120V	OK	0-100%	MLV/TRIAC
	DVWCL-153PH-LA	120V	OK	0-100%	MLV/TRIAC
	CTCL-153PDH-LA	120V	OK	0-100%	MLV/TRIAC
	DVCL-253P	120V	OK	0-100%	MLV/TRIAC
	TGCL-153PR-WH	120V	OK	5-100%	MLV/TRIAC
	TGCL-153PH-WH	120V	OK	5-100%	MLV/TRIAC
	MACL-153MH-LA	120V	OK	0-100%	MLV/TRIAC
	DVELV-303P	120V	OK	0-100%	ELV
	HQRD-6NA	120V	OK	0-100%	ELV/MLV/TRIAC
	MRF2-6ELV-120-WH	120V	OK	5-100%	ELV
	NTELV-600-WH	120V	OK	6-100%	ELV
	VTELV-600-XXX	120V	OK	6-100%	ELV
	SELV-600-WH	120V	OK	6-100%	ELV
	NTELV-300	120V	OK	7-100%	ELV
	MAELV-600	120V	OK	5-100%	ELV
	MSCELV-600M	120V	OK	5-100%	ELV
	MRF2-6ELV-120	120V	OK	5-100%	ELV
	RRA-6NA	120V	OK	6-100%	ELV
	CL MACL-153MH	120V	OK	8-100%	MLV/TRIAC
	SELV-300P	120V	OK	7-100%	ELV
	MIR-600M	120V	OK	9-100%	MLV/TRIAC
	CT-600PR-IV	120V	OK	5-100%	MLV/TRIAC
	CT-600PR-WH	120V	OK	5-100%	MLV/TRIAC
	CT-103PR-WH	120V	OK	15-100%	MLV/TRIAC
	DV-600PR-BL	120V	OK	8-100%	MLV/TRIAC
	DV-600PR-WH	120V	OK	9-100%	MLV/TRIAC
	TG-600PR-LA	120V	OK	8-100%	MLV/TRIAC

DIMMER COMPATIBILITY

Brand	Model No.	Input Voltage	Compatibility	Dimming Range	Type
LUTRON	TG-600PR-IV	120V	OK	8-100%	MLV/TRIAC
	TG-600PR-WH	120V	OK	7-100%	MLV/TRIAC
	S-600PR-WH	120V	OK	10-100%	MLV/TRIAC
	MRF2-6ND-120-AL	120V	OK	8-100%	MLV/TRIAC
	MRF2-6CL-GR	120V	OK	5-100%	MLV/TRIAC
	DZ6HD	120V	OK	5-100%	MLV/TRIAC
	PD-6WCL	120V	OK	0-100%	MLV/TRIAC
	PD-5NE-WH	120V	OK	0-100%	MLV/TRIAC
	DVLV-600P	120V	OK	5-100%	MLV/TRIAC
	DVCL-153P-WH	120V	OK	0-100%	MLV/TRIAC
	MA-PRO	120V	OK	0-100%	MLV/TRIAC
	TG-10PR-WH	120V	OK	8-100%	MLV/TRIAC
	DVSTV-453P	120-277V	OK	0-100%	0-10V
	0-10V DVTV	120V	OK	0-100%	0-10V
LEVITON	Model IPE04	120V	OK	8-100%	ELV
	Model VPE06	120V	OK	5-100%	ELV
	Model VPE04	120V	OK	5-100%	ELV
	VPE06	120V	OK	6-100%	ELV
	VPI06-1LZ	120V	OK	8-100%	MLV/TRIAC
	TTI06-1LZ	120V	OK	9-100%	MLV/TRIAC
	Model IPL06	120V	OK	6-100%	MLV/TRIAC
	DZ6HD	120V	OK	6-100%	MLV/TRIAC
	Model 6674	120V	OK	6-100%	MLV/TRIAC
	Model 6672	120V	OK	10-100%	MLV/TRIAC
	TBL03	120V	OK	8-100%	MLV/TRIAC
	Model 6602	120V	OK	6-100%	MLV/TRIAC
	Model 6683	120V	OK	5-100%	MLV/TRIAC
	IP710	120V	OK	0-100%	0-10V

DIMMER COMPATIBILITY

Brand	Model No.	Input Voltage	Compatibility	Dimming Range	Type
LEVITON	DS710	120V	OK	0-100%	0-10V
	DD710	120V	OK	0-100%	0-10V
LEGRAND	RHCL453PNICCV6	120V	OK	5-100%	MLV/TRIAC
	WSCL450TCCCV4	120V	OK	8-100%	MLV/TRIAC
	LSCL453PLACCV4	120V	OK	6-100%	MLV/TRIAC
CRESTRON	SELV-300P	120V	OK	5-100%	ELV
	CLS-EXP-DIMU	120-277V	OK	7-100%	ELV/MLV/TRIAC
	DIN-1DIMU4	120-277V	OK	5-100%	ELV/MLV/TRIAC
	CLX-1DELV4	120V	OK	8-100%	ELV
	CLW-DELVEX-E	120V	OK	6-100%	ELV
	CLW-DELVEX-P	120V	OK	5-100%	ELV
	CLW-DELVEX-P-W-S	120V	OK	6-100%	ELV
	CLX-2DIMFLV8	120V	OK	0-100%	0-10V 100mA
	DIN-4DIMFLV4	120-277V	OK	0-100%	0-10V 60mA
	CLS-EXP-DIMFLV	120-277V	OK	0-100%	0-10V 70mA
	GLX-DIMFLV8	120-277V	OK	0-100%	0-10V 60mA