

Standard Features on 12 VDC and 24 VDC Electronic Transformers



- Compact size
- Universal Voltage 120-277V
- Available in white powder coat
- Whisper quiet operations
- Dimmable using 0-10V protocol
- Easy installation and accessible maintenance
- Highest degree of efficiency
- UL
- Indoor or Outdoor (IP67 Rated)
- Consult factory for other input voltages

Transformer (Indoor or Outdoor Rated)

Product Code		Max. Watts	Input	Output	Input AC Current	Power Factor	Width (W)	Height (H)	Depth (D)	Weight (LBS)
TRA16-E	TRA16-E-UNV-12VDC-10V	16	120V-277V	12VDC	.4A / 120VAC	.97	12.7"	3.43"	2.66"	2.45 lbs.
	TRA16-E-UNV-24VDC-10V	16	120V-277V	24VDC	.2A / 277VAC	.92	12.7"	3.43"	2.66"	
TRA25-E	TRA25-E-UNV-12VDC-10V	25	120V-277V	12VDC	.4A / 120VAC	.97	12.7"	3.43"	2.66"	2.15 lbs.
	TRA25-E-UNV-24VDC-10V	25	120V-277V	24VDC	.2A / 277VAC	.92	12.7"	3.43"	2.66"	
TRA40-E	TRA40-E-UNV-12VDC-10V	40	120V-277V	12VDC	.6A / 120VAC	.97	12.7"	3.43"	2.66"	2.55 lbs.
	TRA40-E-UNV-24VDC-10V	40	120V-277V	24VDC	.25A / 277VAC	.92	12.7"	3.43"	2.66"	
TRA60-E	TRA60-E-UNV-12VDC-10V	60	120V-277V	12VDC	.64A / 120VAC	.98	12.7"	3.43"	2.66"	2.55 lbs.
	TRA60-E-UNV-24VDC-10V	60	120V-277V	24VDC	.3A / 277VAC	.92	12.7"	3.43"	2.66"	
TRA80-E	TRA80-E-UNV-12VDC-10V	80	120V-277V	12VDC	.85A / 120VAC	.96	12.7"	3.43"	2.66"	3.50 lbs.
	TRA80-E-UNV-24VDC-10V	80	120V-277V	24VDC	.4A / 277VAC	.94	12.7"	3.43"	2.66"	
TRA96-E	TRA100-E-UNV-12VDC-10V	100	120V-277V	12VDC	1.2A / 120VAC	.98	15.7"	4.42"	2.92"	4.25 lbs.
	TRA100-E-UNV-24VDC-10V	100	120V-277V	24VDC	.5A / 277VAC	.93	15.7"	4.42"	2.92"	
TRA120-E	TRA120-E-UNV-12VDC-10V	120	120V-277V	12VDC	1.4A / 120VAC	.98	15.7"	4.42"	2.92"	4.53 lbs.
	TRA120-E-UNV-24VDC-10V	120	120V-277V	24VDC	.55A / 277VAC	.93	15.7"	4.42"	2.92"	
TRA150-E	TRA150-E-UNV-12VDC-10V	150	120V-277V	12VDC	1.7A / 120VAC	.98	15.7"	4.42"	2.92"	4.90 lbs.
	TRA150-E-UNV-24VDC-10V	150	120V-277V	24VDC	.7A / 277 VAC	.92	15.7"	4.42"	2.92"	
TRA185-E	TRA185-E-UNV-12VDC-10V	185	120V-277V	12VDC	2.1A / 120VAC	.98	15.7"	4.42"	2.92"	4.90 lbs.
	TRA185-E-UNV-24VDC-10V	185	120V-277V	24VDC	.8A / 277 VAC	.92	15.7"	4.42"	2.92"	
TRA240-E	TRA240-E-UNV-12VDC-10V	240	120V-277V	12VDC	4A / 120VAC	.98	15.7"	4.42"	2.92"	5.15 lbs.
	TRA240-E-UNV-24VDC-10V	240	120V-277V	24VDC	2A / 277VAC	.95	15.7"	4.42"	2.92"	
TRA320-E	TRA320-E-UNV-12VDC-10V	320	120V-277V	12VDC	3.5A / 120VAC	.98	15.7"	4.42"	2.92"	6.45 lbs.
	TRA320-E-UNV-24VDC-10V	320	120V-277V	24VDC	1.45A / 277VAC	.94	15.7"	4.42"	2.92"	

* Class II 12VDC TRA16-E, TRA40-E, TRA60-E

** Class II 24VDC TRA16-E, TRA25-E, TRA40-E, TRA60-E, TRA-80E

DIMMING PROTOCOL (0-10V) | [TRA-E Compatible Dimmers](#)

Technical Requirements For Control Equipment (0-10V Protocol)

- The output current level of the dimmable driver is controlled by DC voltage (0-10V) applied to the control terminals (blue and white). The light output of LEDs is controlled by the amount of output current from the dimmable driver.
- The control device must be capable of sinking a DC current flow from the driver. The maximum amount under any condition is 500 microamps (uA) per driver.
- The control terminals of the dimmable driver are isolated from the power lines and are suitable for use as Class 2 wiring. Multiple drivers are desired for use with same control device, the control terminals may be connected in parallel in a bus configuration.
- Since the control bus is Class 2 wiring, all control devices that are connected to the power line must have proper isolation between the power line and the control terminals/bus.
- The control device, which intends to control more than one dimmable driver, must be capable of sinking the total current supplied to control bus by the drivers.
- If the control terminals/bus is shorted in any case, the current on the control terminals/bus will be 500 microamps (uA) per driver maximum.
- If the control terminals are opened, the voltage on the control terminals will then be 10V ± 0.5 volt. As a result, dimmable driver supplies maximum output current to LEDs under this condition.
- The driver is intended for use with control voltages between 0 and 10 VDC. The control equipment must not impose a voltage greater than 11 V peak maximum on the driver control terminals.