



New: GE lighting 60 and 110 watt Step down Transformers Optimized For LED applications up to 110 Watts

GE ProLine® LED step down autotransformers are available in 480/347v to 277v/240v for 60 and 110 watt LED loads

GE 480V/ 347 volt autotransformers are an easy way to convert 480 or 347 volt power to 277 V/240v. 480V/347v autotransformers offer extra protection on 480V circuits that are prone to transients from electric motors, welders, cranes etc. These loads generate transients when started or switched which can damage electronic LED Drivers. The GE step-down autotransformer helps to absorb transients before reaching LED Drivers as well as stepping down the voltage to 277V/240v where most LED Drivers operate.

The New 60 and 110 watt transformers have compact size and weight. The transformers dimensions are 7.25 L x 1.8 W x 1.31 H and weight is 1.5 ILBS.

GE ProLine® 480V to 277V Step-Down Autotransformers provide a easy, flexible and most importantly a reliable solution for use with electronic energy saving ballasts in 480V Wye and grounded Delta applications.

You can count on GE to answer your lamp and ballast questions at **1-888-GEBALLAST**.

Performance Features

- Non-Isolated Autotransformer
- Input Voltage 480 and 347v , Vrms, 60 Hz
- Full Load Output Voltage 277 Vrms, 60 Hz. 120Vrms 60Hz.
- Maximum Power 60 W (VA) and 110W (VA), both 480 and 347v
- Separate leads for 347 and 480v connections
- Max Case Temp 105 C
- Thermally Protected
- Sound Rated A
- UL Recognized
- or
- UL Listed – Does not require continuous updates to fixture UL files as opposed to UL Recognized transformers.
- Low-profile housing fits within standard fixtures
- Five-year limited warranty

Applications

- Industrial, Warehousing, Manufacturing, Retail



Benefits of using GE 480V/347 to 277v/240v Step-Down Transformers

Stocking Simplicity: Autotransformers can be used with any LED Drivers or electronic ballast with wattage less than 60 or 110w

Reliability: High reliability with inherent transient voltage surge suppression on both 480 Wye and properly grounded Delta Systems. 5 year system limited warranty

Cost: Lower field cost on replacements / lower cost in LED Driver applications.

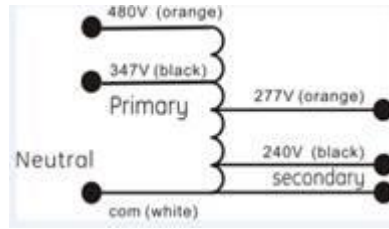
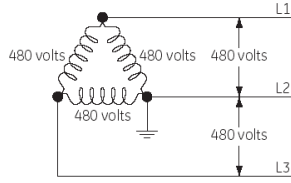
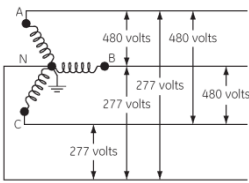
Fixture Simplicity: UL listed does not require a fixture OEM to test/submit for UL certification.

Energy Savings: Allows retrofits of standard metal halide 480 & 347V systems to high performance fluorescent or eHID systems providing over 50% energy savings. High efficiency/low loss transformer design - 93%

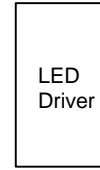


How to Use 90345 and 90358 with 480V Systems

Wye 480V or Grounded Delta Power



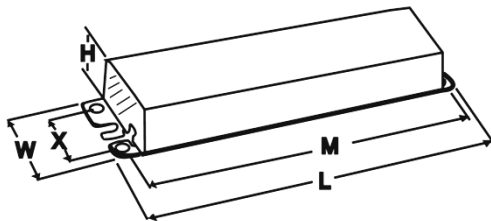
One or more LED DRIVERS within transformer ratings



- 1 Determine fixture system watts of LED system**
 < 60 watts use GETR480/277-60W or 110 watts for GETR480/277-110w
**Watts approximately the same as VA with high power factor LED Drivers that operate typically at .98PF. Watts = Voltage x Amps x Power Factor*
- 2 Select GE 480V to 277V Step-Down Autotransformer**
 90345 or 99746 GETR480/277 → for system watts less than 60VA
 90358 or 99747 GETR480.277 → for system watts less than 110VA
- 3 Determine type of 480V Power Supply**
 Wye 480V, Delta 480V, grounded or ungrounded
- 4 Wire transformer between power supply and electronic ballasts**
 Wye 480V – Connect any two phase wires to input of transformer
 Delta 480V – Special consideration, connect to ground referenced legs only
 Ungrounded – Not suitable for electronic systems & GE step down transformer
Autotransformer Output Wiring: Black lead to ballast white common lead (per NEC, add black tracer color stripe to ballast white wire)
 Orange lead to ballast black (hot) lead

Ordering and Pack Dimensions

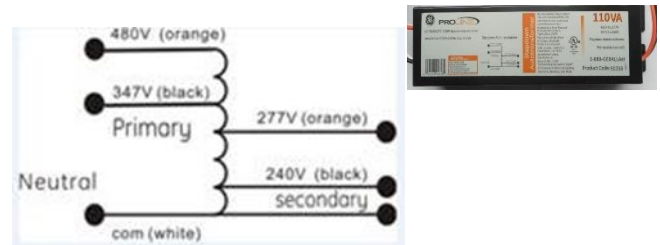
Product Code	Description	Case Pack	Application	Length	Width	Height	Weight
90345	GETR480/277-60W	6	Autotransformer 480/347 to 277v 60w - UL REC	7.25	1.8	1.31	1.5
90358	GETR480/277-110W	6	Autotransformer 480/347 to 277v 110w - UL REC	7.25	1.8	1.31	1.5
99746	GETR480/277-60WL	6	Autotransformer 480/347 to 277v 60w - UL listed	7.25	1.8	1.31	1.5
99747	GETR480/277-110WL	6	Autotransformer 480/347 to 277v 110w - UL listed	7.25	1.8	1.31	1.5



Application Notes:

- 2005 NEC 210.6 (D) requires that phase wires should not exceed 277V to ground for indoor electric discharge luminaire applications. This cannot be guaranteed by an inspector and therefore prohibits the use of lighting systems on 480V 2-wire Delta systems which are not grounded

Wiring Diagram



The Power Behind the Power

GE ProLine® products are custom-manufactured to our demanding Six Sigma specifications for dependable performance with 100% inspection at the factory to ensure every ballast is ready to go on-site.

National Customer Service Center
1-888-GEBALLAST (432-2552)

For additional product and application information, please consult GE's Website: www.gelighting.com

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