



ELECTRONIC BALLASTS FOR T5HO LAMP APPLICATIONS



ULTRASAVE

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PRODUCT OVERVIEW

Ultrasave announces the introduction of a new enhancement within its popular line of electronic ballasts for T5HO lamp applications. The new feature, auto-reset thermal protection, is a thermal protector switch that disconnects power when the temperature reaches 100°C, and restarts automatically when the temperature cools down to 60°C. Our enhanced version of the T5HO ballast is a solution for common temperature issues associated with high-bay installations. Since T5HO fixtures use multiple lamps and ballasts, temperature rise within the fixture is a real concern. This new safety feature prevents over-heating issues, prolongs the life of the lamps and ballasts, thereby saving money on replacement costs.

As with the previous versions, the new ballasts are available in multiple input voltages from 120 to 277 volts, and dedicated voltage of 347 volt, 50/60 Hz. The ballasts are designed to operate reliably up to a can temperature of 90°C and feature programmed rapid start technology to prolong lamp life in all switching applications. This product enhancement offers proven performance, reliability, flexibility and energy savings. The new auto-reset thermal protection feature is only available from Ultrasave.



APPLICATIONS

- Warehouses
- Factories
- Gymnasiums
- Superstores
- Auditoriums

DESIGN FEATURES

▶ Auto-reset thermal protection

- Enhanced safety feature that quickly disconnects the ballast from the power line in the event of over-heating and automatically restarts the ballast on cool down
- Ultrasave's T5HO ballasts have been improved with two added benefits:
 1. Ability to run 5°C cooler than previous versions
 2. In the event of overheating, when the temperature reaches 100°C, the Auto-Reset Thermal Protection feature will quickly disconnect the ballast from the power line. When the temperature cools down to 60°C, the feature will automatically restart the ballast. Restarting time is approximately one hour but can vary under specific installation conditions

▶ Multiple input voltage technology

- 120 ~ 277 volts at 50/60 Hz
 - Reduces inventory carrying costs and SKU requirements
- Also available in 347 volt

▶ Programmed rapid start technology

- Prolongs lamp life under all switching conditions

▶ Lamp end-of-life protection circuitry

- Provides safety and protects the ballasts by removing power from the lamps as they approach EOL

▶ High ballast factor and low total harmonic distortion

- >0.99 PF and <10% THD

▶ Installation flexibility

- Wire or poke-in connectors options

▶ Multiple lamp operations with one ballast

- Up to 4 lamps
- Also operates long twin tube lamps (Biax / PL-L)

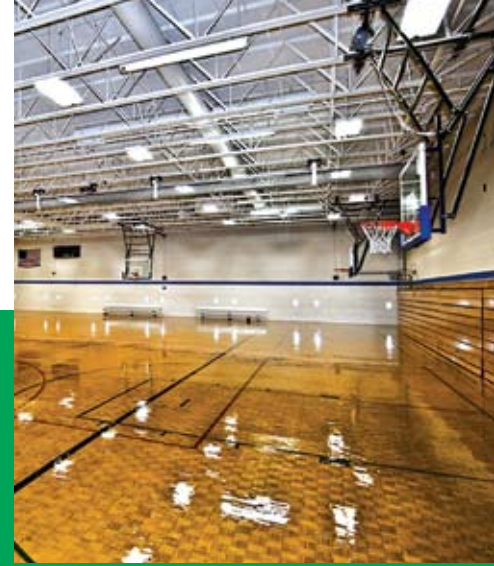
▶ 90°C / 194°F case temperature rating

▶ Minimum starting temperature of -29°C / -20°F

- Suitable for cold temperature environments

▶ Rated class A for quiet operation

▶ Five year warranty



BALLAST CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Comply with ANSI Standard C82.11-1993 and C62.41-1991
- Meet FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Do not contain Polychlorinated Biphenyl (PCBs)
- Class P, Type 1 Outdoor, Type HL

MODEL NUMBER	APPLICATION
ER254120MHT	1 or 2 lamp F54T5HO, FT55T5, 120~277V, max. 90°C
ER254347MHT	1 or 2 lamp F54T5HO, FT55T5, 277~347V, max. 90°C
ER254120MHT-W*	1 or 2 lamp F54T5HO, FT55T5, 120~277V, max. 90°C
ER254347HT-W*	1 or 2 lamp F54T5HO, FT55T5, 347V, max. 90°C
ER 454120MHT-W*	3 or 4 lamp F54T5HO, FT55T5, 120~277V, max. 90°C
ER454347HT-W*	3 or 4 lamp F54T5HO, FT55T5, 347V, max. 90°C

*WIRED VERSION

SPECIFICATIONS

# OF LAMPS	LAMP WATTS	INPUT VOLTAGE	MODEL NUMBER	INPUT CURRENT (AMPS)	INPUT POWER (WATTS)	BALLAST FACTOR	MAX. THD %	MIN. POWER FACTOR	B.E.F.
F54T5HO									
1	54	120 ~ 277	ER254120MHT	0.49 / 0.21	58	1.00	10	0.99	1.72
		120 ~ 277	ER254120MHT-W	0.52 / 0.23	62	1.02	10	0.99	1.65
		277 ~ 347	ER254347MHT	0.21 / 0.17	58	1.00	10	0.99	1.72
		347	ER254347HT-W	0.18	62	1.02	10	0.99	1.65
2	54	120 ~ 277	ER254120MHT	0.96 / 0.42	114	1.00	10	0.99	0.88
		120 ~ 277	ER254120MHT-W	0.97 / 0.43	116	0.99	10	0.99	0.85
		277 ~ 347	ER254347MHT	0.42 / 0.33	114	1.00	10	0.99	0.88
		347	ER254347HT-W	0.35	118	0.99	10	0.99	0.84
3	54	120 ~ 277	ER454120MHT-W	1.52 / 0.66	182	1.00	10	0.99	0.55
		347	ER454347HT-W	0.53	182	1.00	10	0.99	0.55
4	54	120 ~ 277	ER454120MHT-W	2.00 / 0.86	240	1.00	10	0.99	0.42
		347	ER454347HT-W	0.71	240	1.00	10	0.99	0.42

Critical factors in choosing the correct T5HO ballasts:

Factors	Ultrasave	Ultrasave Advantage
Low temperature starting capability	✓	Minimum lamp starting temperature of -29°C/-20°F
Multiple voltage inputs	✓	120-277 volts or 347 volt; reduces inventory carrying costs
Reliable operation in high ambient temperature environment	✓	90°C case temperature rating
Energy efficient	✓	High frequency, efficient electronic design
Extended lamp life	✓	Programmed rapid start technology offers longer lamp life compared to instant or regular rapid start systems
High degree of heat protection	✓	End-of-life and auto-reset thermal protections
Warranty	✓	5 year warranty on all T5HO ballasts, with fast and no-squabble replacement
Fast starting capability	✓	No warm-up period compared to HID lamps; ideal for occupancy sensor applications
Quiet operation	✓	Class A sound rating

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