

# The electronic switch

The U.S. Department of Energy (DOE) Ballast Ruling that prevented the manufacture of specific magnetic fluorescent lamp ballasts in 2005 to fixture manufacturers will apply to such replacement ballasts sold through the electrical distribution channel as of July 1, 2010. Natural Resources Canada (NRCan) Office of Energy Efficiency mandates that manufacturers will no longer be allowed to manufacture replacement ballasts for sale in the Canadian electrical distribution channel as of April 1, 2010 without meeting the minimum energy efficiency requirements.

These minimum efficiency standards apply to the following T12 lamps and ballasts:

- F34T12, F34T12/U (34W)
- F40T12, F40T12/U (40W)
- F96T12 (75W), F96T12ES (60W) Slimline
- F96T12HO (110W), F96T12HOES (95W)

Exemptions apply to those systems that include:

- Ballasts for F32T8 Lamps
- Ballasts for residential use with:
  - Power Factor less than 0.90 and are labeled for Residential use only.
- Ballasts for F96T12HO Lamps that operate at <-20 F and are for use in an outdoor sign
- Ballasts that dim to less than 50% of their full light output

Universal Lighting Technologies will continue to offer a full line of electronic ballasts that exceed all DOE and NRcan efficiency requirements for T12 systems.



**Basic-12** electronic ballasts feature:

- **Greater Energy Efficiency**
  - 20% increase in efficiency
  - Lowers lighting operations cost
- **Full Light Output**
  - Provides same light levels as electromagnetic equivalent
- **Quiet operation**
  - Significantly quieter than electromagnetic equivalent
- **High frequency operation**
  - No lamp flickering
- **Light weight low profile case**
  - Simplifies transportation & installation
  - Less interference with ballast channel cover in fixture
- **Ballasts for Slimline lamps provide parallel operation**
- **Same warranty as energy saving magnetic ballast**

## DOE & NRCAN RULING AFFECTED BALLASTS

NO. OF LAMPS	INPUT VOLTS	MAGNETIC CATALOG NUMBER	REPLACEMENT CATALOG NUMBERS
<b>F34T12, F34T12/U, F40T12, F40T12U, F40T12ES</b>			
1	120	412LSLHTCP	B134R120M-A
	277	458LSLHTCP	B234SR277M-A
2	120	446LSLHTCP	B234R120M-A
		420LTCP	
		W589DTCP	
		755LSLHTCP	
	277	443LSLHTCP	B234SR277M-A
	347	698LSHTCP	-
<b>F96T12, F96T12ES Slimline</b>			
1	120	822BRTCP	B260I120M-A (120V ES Lamps)
	277	828BRTCP	B260IUNVHP
2	120	480XLHTCP	480SLHTCP
		806SLHTCP	B260I120M-A (120V ES Lamps)
	277	827SLHTCP	B260IUNVHP
	347	897SLHTC	-
F96T12HO, F96T12HOES			
2	277	487XLHTCP	487SLHTCP
		491XLHTCP	B295SRUNVHP

## ADDITIONAL OBSOLETE REFERENCES

NO. OF LAMPS	INPUT VOLTS	MAGNETIC CATALOG NUMBER	REPLACEMENT CATALOG NUMBERS
<b>T12</b>			
1	120	202SBTCP	202BTCP
		565LTCP	546BTCP
		4105P	-
		4105F2P	-
2	120	200CSP	-
		573LTCP	B240R120HP
		447LRVLHTCP	447LRTCP
	127	620LHTCP	-
		831TC	B260I120RH
		597LTCP	-
220	808BRTCP	B260IUNVHP	
	277	697LTCP	-
<b>T12HO</b>			
2	120	789SLHTCP	493B2
	347	778XLHTC	-
<b>T12 Slimline</b>			
2	120	881BRTCP	B260I120RH
		213TCP	B260IUNVHP
<b>Circline</b>			
1	120	445RSWSTCP	-
		726LVLHWSTCP	-
<b>T12VHO</b>			
1	120	949LHTCP	-
2		960VLHTCP	931LHTCP
		930KTCP	
<b>CFL</b>			
1	120	4139F2P	-
		CF1320H2	-
4128PBES		-	
4114P		-	
2		4112PBES	-
		4146P	-
	4122PBES	-	
	277	4222P	-
		4221PBE	-

## IT'S EASY TO REACH US...



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