

# PRETORIA

We Design Innovative Bus Interiors

Transit Interiors, Inc.  
1975 Joe B. Jackson Pkwy  
Murfreesboro, TN 37127

Tel. (615) 867-8515  
Fax (615) 867-8790  
[www.PretoriaUSA.com](http://www.PretoriaUSA.com)

## BALLAST TECHNICAL SPECIFICATION

<b>Ballast Model</b>	<b>BAL-031-XX</b>
<b>Last Spec Sheet Update</b>	12/5/2006
<b>General Description</b>	24Vdc (nominal) <b>Extinguishable Mode</b> electronic ballast for 1 lamp equipped with status indicating LED's
<b>Starting Mode</b>	Filaments are permanently heated; Instant Start
<b>Lamp(s) per Ballast</b>	1
<b>Lamp(s) Compatibility</b>	F24T12, F36T12, F48T12, F60T12, F72T12
<b>Output Efficiency</b>	Minimum of 80% of full lamp output
<b>Minimum Input Voltage</b>	22Vdc
<b>Normal Input Voltage</b>	28Vdc
<b>Maximum Input Voltage</b>	30Vdc
<b>Output at 24V Input</b>	Current 200mA; Filament 3.3Vrms
<b>Operating Temperature Range</b>	-4° F to 131° F / (-20° C to 55° C)
<b>Maximum Current Draw</b>	1.7A (F72T12)
<b>Maximum Output Power</b>	50 Watt
<b>Control Input</b>	Apply > 16V for shut down (filaments remains on)
<b>Output Frequency</b>	65kHz +/- 5kHz
<b>Transients and Over Voltage Protection</b>	40 Vdc
<b>Over Temperature Protection</b>	Integrated PTC Fuse
<b>Reverse Polarity Protection</b>	Integrated PTC Fuse
<b>Output Short Circuit: 24 Vdc</b>	220mA
<b>Short Circuit Protection</b>	30 msec.shutdown with auto restart at tempoary loss of contact
<b>UL 935 Type CC</b>	Yes
<b>FCC Part 18</b>	Yes
<b>Environmental Protection</b>	Conformal coating against air pollution, moisture and humidity
<b>Green LED Indicator</b>	Green LED on indicated that the ballast is functioning properly
<b>Red LED Indicator</b>	Red LED on indicates ballast malfunction
<b>Other Features</b>	5 year warranty, non potted, fire proof (steel or aluminum) housing, repairable, recyclable. radio frequency shielded.

### BAL-026

BAL-026 meets the requirements for UL935 Type CC; Test Purpose: To determine that the ballast will not cause a harmful arc.

BAL-026 incorporates a PTC (Positive Temperature Coefficient Resettable fuse) which provides protection for:

Reverse polarity - After correcting polarity, ballast will operate.

Over temperature - At 230 degrees F, the PTC fuse will trip. After cooling off, the input power needs to be re-applied for start.

Specifications are subject to change without notice

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### INPUT CURRENT TABLE

Model / Lamp	F24T12	F36T12	F48T12	F60T12	F72T12
<b>BAL-031</b>	.55A	.70A	.75A	1.25A	1.40A

### BALLAST DIAGNOSIS AND LED INDICATORS

Model	Condition	Red LED	Green LED	Operation
<b>BAL-031</b>	Normal	OFF	ON	N/A
	Malfunction	ON	OFF	Turn off power and wait 5 seconds. Restart ballast. If Red LED is still on, replace the ballast.