



Small and efficient

Philips Advance AmbiStar™ ballasts for miniature 4-pin compact fluorescent and linear T5 Lamps are ideal for smaller residential applications.

Philips Advance Ambistar miniature instant start ballasts, deliver warm, comfortable, cost-effective and energy saving lighting solutions in smaller residential and hospitality applications. Whether you are using 4-pin compact fluorescent lamps or linear T5 lamps, these AmbiStar ballasts are specially designed for applications requiring instant flicker free ignition where smaller lighting fixtures are needed. These AmbiStar ballasts also meet EPA Energy Star® Residential and consumer EMI requirements for reliable operation in residential settings.

AmbiStar ballasts are available with a high or normal power factor model depending on the desired application. The high power factor models operate a wide variety of lamps including 7W or 9W twin tube lamps, 13W quad or triple tube lamps, or 18W quad or triple tube lamps. The normal power factor models will operate one 26W quad or triple tube lamp.

These AmbiStar miniature ballasts are ideal to meet the demands of a variety of residential, hospitality and light commercial settings, they are perfect for under cabinet, task, ambiance, orientation, and outdoor residential applications.

[Class B FCC EMI Rating](#)

- Requirement for the EPA ENERGY STAR residential lighting fixtures

[Title 24 Energy Efficiency Requirements](#)

- For use in high efficiency residential fixtures as stated in California's Title 24 requirements

[Lamp ignition in less than 1.0 second](#)

- Provides flicker-free starting

[Lamp End-Of-Life \(EOL\) protection circuit](#)

- Removes power to the lamps upon lamp failure

**PHILIPS
ADVANCE**

No. of Lamps	Input Volts	Lamp Starting Method	Ballast Family	Catalog Number	Input Power ANSI (Watts)	Ballast Factor	Max. THD %	Line Current (Amps)	Min. Starting Temp. (°F/°C)	Dim.	Wiring Dia.
CF77W/2G7-7W CFL Twin Tube Lamp (CF7DS/E)											
1	120	IS	Ambistar	RMB-IP13-S1	8	1.00	150	0.13	0/-18	S1	160
				RMB-IP13-S2-H	8	1.00	20	0.07		S2	
2	120	IS	Ambistar	RMB-IP13-S1	16	1.10	150	0.25		S2	159
				RMB-2P13-S3-H	16	1.00	15	0.14		S3	
CF79W/2G7 - 9W CFL Twin Tube Lamp (CF9DS/E)											
1	120	IS	Ambistar	RMB-IP13-S1	10	1.10	150	0.16	0/-18	S1	160
				RMB-IP13-S2-H	10	1.05	20	0.09		S2	
2	120	IS	Ambistar	RMB-2P13-S2	20	1.10	125	0.29		S2	159
				RMB-2P13-S3-H	20	1.05	10	0.17		S3	
CFQ13W/G24q - 13W CFL Quad Tube Lamp (PL-CI3W/4P, FI3DBX/4P, CF13DD/E) CFTR13W/GX24q - 13W CFL Triple Tube Lamp (FI3TBX/4P, CF13DT/3)											
1	120	IS	Ambistar	RMB-IP13-S1	13	1.00	150	0.20	0/-18	S1	160
				RMB-IP13-S2-H	14	0.85	20	0.12		S2	
2	120	IS	Ambistar	RMB-2P13-S2	25	0.95	125	0.35		S3	159
				RMB-2P13-S3-H	27	0.90	10	0.23		S3	
CFQ18W/G24q - 18W CFL Quad Tube Lamp (PL-CI8W/4 P, FI8DBX/4P, CF18DD/E) CFTR18W/GX24q - 18W CFL Triple Tube Lamp (PL-T18W, FI8TBX/4P, CF18DT/E)											
1	120	IS	Ambistar	RMB-2P13-S2	16	0.80	150	0.26	0/-18	S2	159
				RMB-2P13-S3-H	15	0.80	15	0.13		S3	
CFQ26W/G24q - 26W CFL Quad Tube Lamp (PL-C26W/4 P, F26DBX/4P, CF26DD/E) CFTR26W/GX24q - 26W CFL Triple Tube Lamp (PL-T26W/4P, F26TBX/4P, CF26DT/E)											
1	120	IS	Ambistar	RMB-IP26-S2	26	0.95	125	0.38	0/-18	A	160
F8T5 (8W)											
1	120	IS	Ambistar	RMB-IP13-S1	10	1.30	150	0.16	0/-18	S1	163
				RMB-IP13-S2-H	10	1.20	20	0.08		S2	
2	120	IS	Ambistar	RMB-2P13-S2	19	1.30	125	0.27		S2	162
				RMB-2P13-S3-H	19	1.25	10	0.16		S3	
(1) F8T5 & (1) FI3T5 {(1) 8W & (1) 13W}											
1	120	IS	Ambistar	RMB-2P13-S2	23	1.10	125	0.33	0/-18	S1	163
				RMB-2P13-S3-H	23	1.10	10	0.20		S2	
FI3T5 (13W)											
1	120	IS	Ambistar	RMB-IP13-S1	14	1.00	150	0.21	0/-18	S1	163
				RMB-IP13-S2-H	14	0.95	15	0.12		S2	
2	120	IS	Ambistar	RMB-2P13-S2	27	0.95	125	0.38		S2	162
				RMB-2P13-S3-H	28	0.95	10	0.24		S3	
FI4T5 (14W)											
1	120	IS	Ambistar	RMB-IP13-S1	14	0.95	150	0.21	0/-18	S1	163
				RMB-IP13-S2-H	14	0.90	15	0.12		S2	
2	120	IS	Ambistar	RMB-2P13-S2	27	0.90	125	0.38		S2	162
				RMB-2P13-S3-H	28	0.90	10	0.24		S3	
FC9T5 (22W Circline)											
1	120	IS	Ambistar	RMB-IP26-S2	25	1.00	150	0.39	0/-18	S2	163
FC8T9 (22W Circline)											
1	120	IS	Ambistar	RMB-IP26-S2	22	0.95	150	0.39	0/-18	S2	163
FT18W/2GII/RS - 18W (FI8BX/RS, FT18DL/RS)											
1	120	IS	Ambistar	RMB-IP26-S2	23	1.00	150	0.37	0/-18	S2	160
FT24W/2GII - 24/27W (PL-L24W, F27BX/RS, FT24DL)											
1	120	IS	Ambistar	RMB-IP26-S2	26	0.95	150	0.40	0/-18	S2	160

Wiring Diagrams and Dimensions

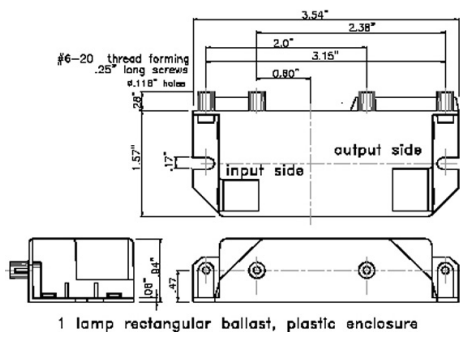
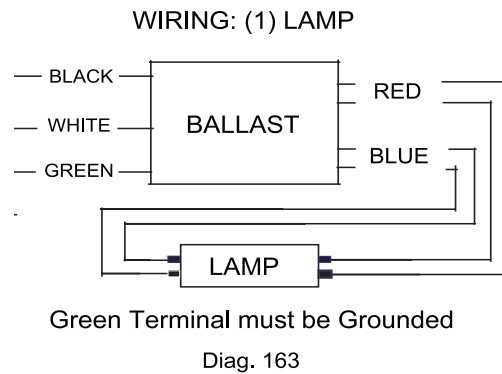
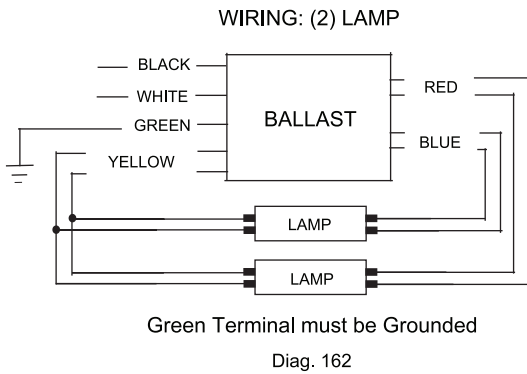
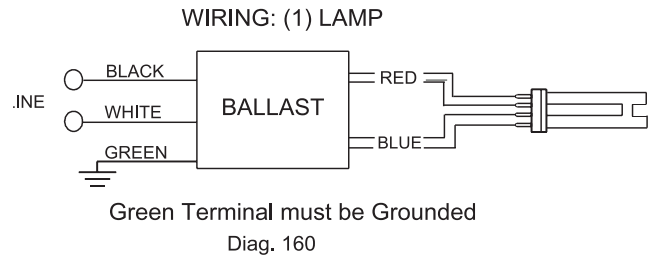
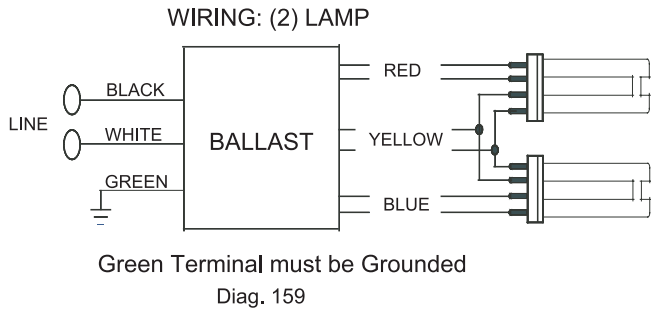


Fig. S1

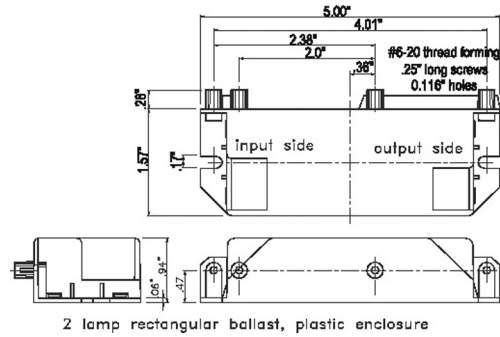


Fig. S2

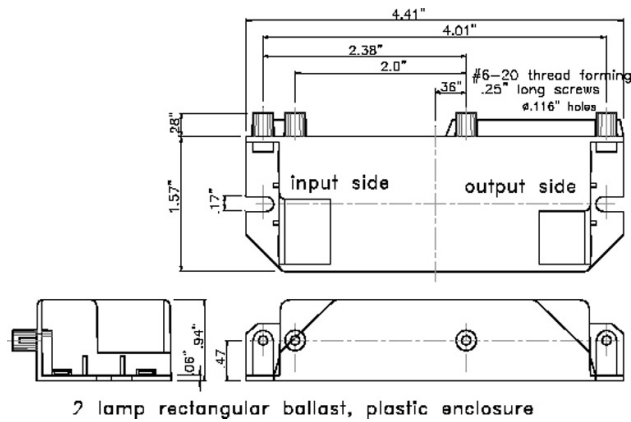


Fig. S3

Ballast Specifications:

Section I - Physical Characteristics

- 1.1 Ballast shall be provided with poke-in wire trap connectors color coded per ANSI C82.11.

Section II - Performance Requirements

- 2.1 Ballast shall be Instant Start.
- 2.2 Ballast shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
- 2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power
- 2.4 Ballast shall operate from 60 Hz input source of 120V with sustained variations of +/- 10% (voltage and frequency).
- 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.6 Ballast shall have a Power Factor greater than 0.50 for primary lamp.
- 2.7 Ballast shall have a minimum ballast factor of 0.95 for primary lamp.
- 2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less in accordance with lamp manufacturer recommendations.
- 2.9 Ballast input current shall have Total Harmonic Distortion (THD) of less than 150% when operated at nominal line voltage with primary lamp.
- 2.10 Ballast shall have a Class A sound rating.
- 2.11 Ballast shall have a minimum starting temperature of 0°F/-18°C for primary lamp.
- 2.12 Ballast shall provide Lamp EOL Protection Circuit.
- 2.13 Ballast shall tolerate sustained open circuit and short circuit output conditions.

Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P, Type CC, and Type I Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast shall be rated for use in air-handling spaces.
- 3.4 Ballast shall comply with ANSI C62.41 Category A3 for Transient protection.
- 3.5 Ballast shall comply with ANSI C82.11 where applicable.
- 3.6 Ballast shall comply with the Federal Communications Commission (FCC), Title 47 CFR part 18, Consumer (Class B) for EMI/RFI (conducted and radiated).

Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9002 Quality System Standards.
- 4.2 Ballast shall carry a ___ limited warranty from date of manufacture against defects in material or workmanship. This warranty is conditioned upon operation at a maximum case temperature of _____, among other items. (Go to our website for up-to-date warranty information, www.philips.com/advancewarranty).
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be Philips Advance part # _____ or approved equal.



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