

ELECTRONIC FLUORESCENT BALLASTS

SmartMate and Mark 10 Powerline Ballast Kits



Kit Contents and Key Features	Key Benefits
SmartMate or Mark 10 Powerline ballast • Intellivolt Technology • Dual-entry color-coded connectors • Multi-Lamp Capability Mounting Plate Adapter • Multiple lead wire cutouts, including center hole • Integral mounting studs Lead Wire • Color-coded • Pre-stripped 3/8" on one end — 5/8" on the other Wire Extraction Tool Individually Shrink-Wrapped Kits	Makes ballast selection and installation a breeze • Provides full range input voltage from 120V to 277V • Adds to application versatility; simplifies wiring • Encompasses a wide variety of applications, including quads, triple tubes, circline, 2D and long twin-tube lamps Takes the guess-work out of mounting • Allows wiring and mounting to existing fixture's mounting plate • Eliminates need to stock units with and without studs Allows installer to pre-wire • Enables wiring accuracy • Meets UL poke-in connector requirements and facilitates final connection Makes for quick disconnections if necessary

ICF-2S13-H1-LD-K REZ-2Q26-M2-LD-K
ICF-2S18-H1-LD-K VEZ-2Q26-M2-LD-K
ICF-2S26-H1-LD-K REZ-1T42-M2-LD-K
ICF-2S42-M2-LD-K VEZ-1T42-M2-LD-K

Kits contain the standard ballasts.
For lamp and operational data consult
pages 1-22 through 1-29 and 2-9

- Ideally suited for replacement of expired electronic ballasts, regardless of brand or mounting configuration.
- Dramatically simplifies the upgrading of incandescent fixtures to energy-saving CFL.
- Compatible with most J-Box covers

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ELECTRONIC FLUORESCENT BALLASTS

For 26W Quad & 13W Triple Lamps

HIGH POWER FACTOR SOUND RATED A

Electronic
Fluorescent Ballasts

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.
CFQR26W/G24q - 26W CFL Quad Tube Lamp (PL-C26W/4P, F26DBX/4P, CF26DD/E)											
1	120	IS	AmbiStar	REB-126-M6-BLS*	25	1.00	150	0.38	0/-18	Size 6	160A
				REB-126-M6-EL*							
		RS		RCF-2S26-H1-LD-QS	27	1.00	10	0.23			
	RCF-2S26-M1-BS-QS										
	120-277	PS	SmartMate	ICF-2S26-M1-BS-QS	27	1.00	10	0.23-0.10			
				ICF-2S26-H1-LD							
				ICF-2S26-H1-LD-K ⑩							
2	120	IS	AmbiStar	REB-2S26-M6-EL*	52	0.88	135	0.77	0/-18	Size 6	159
				RCF-2S26-H1-LD-QS	51	1.00	10	0.43			
		RS		RCF-2S26-M1-BS-QS							
	120-277		PS	SmartMate	ICF-2S26-M1-BS-QS	51	1.00	10		0.43-0.19	
		ICF-2S26-H1-LD									
		ICF-2S26-H1-LD-K ⑩									
		ICF-2S26-M1-BS									
		ICF-2S42-M2-BS			52	1.00	10	0.43-0.19			
		ICF-2S42-M2-LD									
		ICF-2S42-M2-LD-K ⑩									
		ICF-2S42-90C-M2-BS			52	1.00	10	0.43-0.19			
		ICF-2S42-90C-M2-LD									
CFTRI3W/GX24q - 13W CFL Triple Tube Lamp (F13TBX/4P, CF13DT/E)											
1	120	IS	AmbiStar	REB-113-M6-BLS*	13	1.00	150	0.23	0/-18	Size 6	160A
				REB-113-M6-EL*							
		RS		RCF-2S13-H1-LD-QS	16	1.00	10	0.13			
	RCF-2S13-M1-BS-QS										
	120-277	PS	SmartMate	ICF-2S13-M1-BS-QS	16	1.00	10	0.13-0.06			
				ICF-2S13-H1-LD							
				ICF-2S13-H1-LD-K ⑩							
2	120	IS	AmbiStar	REB-2S13-M6-EL*	27	0.88	135	0.42	0/-18	Size 6	159
				RCF-2S13-H1-LD-QS	29	1.00	10	0.25			
		RS		RCF-2S13-M1-BS-QS							
	120-277		PS	SmartMate	ICF-2S13-M1-BS-QS	29	1.00	10		0.25-0.11	
		ICF-2S13-H1-LD									
		ICF-2S13-H1-LD-K ⑩									
		ICF-2S13-M1-BS									

* Normal Power Factor

⑩ Replacement/Retrofit ballast kits indicated with suffix K are available to distributors. Refer to page I-21 for details.

Refer to page I-27 for dimensions and wiring diagrams
 Refer to pages 9-23 to 9-27 for lead lengths and shipping data



HIGH POWER FACTOR SOUND RATED A



For 18-26W Triple Lamps

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.
CFTR18W/GX24q - 18W CFL Triple Tube Lamp (PL-T18W, F18TBX/4P, CF18DT/E)											
1	120	IS	AmbiStar	REB-118-M6-BLS*	18	1.00	150	0.29	0/-18	Size 6	160A
		REB-118-M6-EL*		Size 1						160	
	120-277	RS	SmartMate	RCF-2S18-M1-BS-QS	20	1.05	10	0.17-0.08		Size 1	160
		ICF-2S18-M1-BS-QS									
		ICF-2S18-H1-LD									
		ICF-2S18-H1-LD-K ⑩									
2	120	IS	AmbiStar	ICF-2S18-M1-BS	37	0.90	135	0.55	0/-18	Size 6	159
		RCF-2S18-M1-BS-QS		Size 1							
	120-277	RS	SmartMate	ICF-2S18-M1-BS-QS	39	1.05	10	0.33-0.14		Size 1	
		ICF-2S18-H1-LD									
		ICF-2S18-H1-LD-K ⑩									
		ICF-2S18-M1-BS									
CFTR26W/GX24q - 26W CFL Triple Tube Lamp (PL-T26W, F26TBX/4P, CF26DT/E)											
1	120	IS	AmbiStar	REB-126-M6-BLS*	25	1.00	150	0.38	0/-18	Size 6	160A
		REB-126-M6-EL*		Size 1						160	
	120-277	RS	SmartMate	RCF-2S26-H1-LD-QS	29	1.10	10	0.24-0.11		Size 1	160
		RCF-2S26-M1-BS-QS									
		ICF-2S26-M1-BS-QS									
		ICF-2S26-H1-LD									
2	120	IS	AmbiStar	ICF-2S26-H1-LD-K ⑩	29	1.10	10	0.24-0.11	0/-18	Size 1	159
		ICF-2S26-M1-BS									
	120-277	RS	AmbiStar	REB-2S26-M6-EL*	52	0.88	135	0.55		Size 6	
				RCF-2S26-H1-LD-QS							
		PS	SmartMate	RCF-2S26-M1-BS-QS	54	1.00	10	0.46-0.21		Size 2	
				ICF-2S26-M1-BS-QS							
				ICF-2S26-H1-LD							
				ICF-2S26-H1-LD-K ⑩							
				ICF-2S26-M1-BS							
				ICF-2S42-M2-BS							
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
ICF-2S42-90C-M2-BS											
ICF-2S42-90C-M2-LD											

* Normal Power Factor

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Refer to page I-27 for dimensions and wiring diagrams

Refer to pages 9-23 to 9-27 for lead lengths and shipping data



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ELECTRONIC FLUORESCENT BALLASTS

For 32-70W Triple Lamps

HIGH POWER FACTOR SOUND RATED A



Electronic
Fluorescent Ballasts

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.
CFTR32W/GX24q - 32W CFL Triple Tube Lamp (PL-T32W, F32TBX/4P, CF32DT/E)											
1	120	RS	AmbiStar	RCF-2S26-H1-LD-QS	36	0.98	10	0.31	0/-18	Size 1	160
				RCF-2S26-M1-BS-QS							
	120-277	PS	SmartMate	ICF-2S26-M1-BS-QS	36	0.98	10	0.31-0.13			
				ICF-2S26-H1-LD							
				ICF-2S26-H1-LD-K ⑩							
	ICF-2S26-M1-BS										
2	120-277	PS	SmartMate	ICF-2S42-M2-BS	68	0.98	10	0.57-0.25	0/-18	Size 2	159
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							
CFTR42W/GX24q - 42W CFL Triple Tube Lamp (PL-T42W, F42TBX/4P, CF42DT/E)											
1	120	RS	AmbiStar	RCF-2S26-H1-LD-QS	46	0.98	10	0.38	0/-18	Size 1	160
				RCF-2S26-M1-BS-QS							
	120-277	PS	SmartMate	ICF-2S26-M1-BS-QS	46	0.98	10	0.38-0.17			
				ICF-2S26-H1-LD							
				ICF-2S26-H1-LD-K ⑩							
	ICF-2S26-M1-BS										
2	120-277	PS	SmartMate	ICF-2S42-M2-BS	93	0.97	10	0.78-0.33	0/-18	Size 2	159
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							
CFTR57W/GX24q - 57W CFL Lamp (PL-T57W, F57QBX/4P, CF57DT/E)											
1	120-277	PS	SmartMate	ICF-2S42-M2-BS	59	0.94	10	0.50-0.21	0/-18	Size 2	160
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							
2	120-277	PS	SmartMate	ICF-2S70-M4-LD	128-126	1.00	10	1.07-0.46	0/-18	Size 4	159
CFTR70W/GX24q - 70W CFL Lamp (F70QBX/4P, CF70DT/E)											
1	120-277	PS	SmartMate	ICF-2S42-M2-BS	75	0.96	10	0.63-0.27	0/-18	Size 2	160
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							
2	120-277	PS	SmartMate	ICF-2S70-M4-LD	156-152	1.00	10	1.30-0.56	0/-18	Size 4	159

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Refer to page I-27 for dimensions and wiring diagrams
 Refer to pages 9-23 to 9-27 for lead lengths and shipping data



HIGH POWER FACTOR SOUND RATED A



For 10-38W Lamps

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.
CFS10W/GR10q - 10W 2D Lamp (F10 2D/4P)											
1	120-277	PS	SmartMate	ICF-2S13-HI-LD	13	1.05	15	0.11-0.05	0/-18	Size 1	160
				ICF-2S13-HI-LD-K ⑩							
				ICF-2S13-MI-BS							
2	120-277	PS	SmartMate	ICF-2S13-HI-LD	23	0.95	15	0.19-0.09	0/-18	Size 1	159
				ICF-2S13-HI-LD-K ⑩							
				ICF-2S13-MI-BS							
CFS16W/GR10q - 16W 2D Lamp (F16 2D/4P)											
1	120-277	PS	SmartMate	ICF-2S13-HI-LD	17	1.00	15	0.14-0.06	0/-18	Size 1	160
				ICF-2S13-HI-LD-K ⑩							
				ICF-2S13-MI-BS							
2	120-277	PS	SmartMate	ICF-2S18-HI-LD	37	1.00	10	0.31-0.13	0/-18	Size 1	159
				ICF-2S18-HI-LD-K ⑩							
				ICF-2S18-MI-BS							
CFS21W/GR10q - 21W 2D Lamp (F21 2D/4P)											
1	120-277	PS	SmartMate	ICF-2S18-HI-LD	20	0.90	15	0.16-0.07	0/-18	Size 1	160
				ICF-2S18-HI-LD-K ⑩							
				ICF-2S18-MI-BS							
2	120-277	PS	SmartMate	ICF-2S18-HI-LD	40	0.91	10	0.33-0.14	0/-18	Size 1	159
				ICF-2S18-HI-LD-K ⑩							
				ICF-2S18-MI-BS							
				ICF-2S26-HI-LD	51	1.12	10	0.42-0.18			
				ICF-2S26-HI-LD-K ⑩							
				ICF-2S26-MI-BS							
CFS28W/GR10q - 28W 2D Lamp (PL-Q 28W/4P, F28 2D/4P)											
1	120-277	PS	SmartMate	ICF-1D38-HI-LD	27	1.00	10	0.23-0.10	0/-18	Size 1	160
2	120-277	PS	SmartMate	ICF-2S42-M2-BS	57	1.00	10	0.48-0.21	0/-18	Size 2	159
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							
CFS38W/GR10q - 38W 2D Lamp (PL-Q 38W/4P, F38 2D/4P)											
1	120-277	PS	SmartMate	ICF-1D38-HI-LD	31	0.85	10	0.26-0.11	0/-18	Size 1	160
2	120-277	PS	SmartMate	ICF-2S42-M2-BS	62	0.80	10	0.55-0.23	0/-18	Size 2	159
				ICF-2S42-M2-LD							
				ICF-2S42-M2-LD-K ⑩							
				ICF-2S42-90C-M2-BS							
				ICF-2S42-90C-M2-LD							

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Refer to page 1-27 for dimensions and wiring diagrams

Refer to pages 9-23 to 9-27 for lead lengths and shipping data

For 24-36W Lamps

HIGH POWER FACTOR SOUND RATED A



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.							
FT24W/2G11 - 24/27W (PL-L24W, F27BX/RS, FT24DL)																		
1	120-277	PS	Centium	ICN-2S24	27	1.02	10	0.23-0.10	0/-18	D	73							
				ICN-2S24-N						N								
				ICN-2S39	29	1.12	15	0.24-0.12		D								
				ICN-2S39-N						N								
2	120-277	PS	SmartMate	ICF-2S26-H1-LD	48	0.93	10	0.41-0.18	0/-18	Size 1	160							
				ICF-2S26-H1-LD-K ⑩														
				ICF-2S26-M1-BS														
				ICF-2S42-M2-BS	48	0.93	15	0.40-0.18		Size 2	159							
				ICF-2S42-M2-LD														
				ICF-2S42-M2-LD-K ⑩														
				ICF-2S42-90C-M2-BS														
				ICF-2S42-90C-M2-LD														
			Centium	ICN-2S24	52	1.00	10	0.44-0.19		D	74A							
				ICN-2S24-N						N								
				ICN-2S39	54	1.10	10	0.46-0.20		D								
				ICN-2S39-N						N								
FT36W/2G11 - 36/39W (PL-L36W, F39BX/RS, FT36DL)																		
1	120-277	PS	Centium	ICN-2S24	34	0.90	10	0.29-0.13	0/-18	D	73							
				ICN-2S24-N						N								
				ICN-2S39	36	0.96	15	0.30-0.13		D								
				ICN-2S39-N						N								
				ICN-2S54	46	1.22	20	0.39-0.18		D								
				ICN-2S54-N						N								
	347-480		Optanium	ICN-2S54-90C-SC	46	1.20	10	0.39-0.18	-20/-29	B	77							
				IOP-2PSP54-SC														
				Centium						HCN-2S54-90C-WL		46	1.22	15	0.13-0.10	L	73	
				Optanium						HOP-2PSP54-L		46	1.00	10	0.13-0.10	L	77	
2	120-277	PS	Centium	ICN-2S39	69	0.94	10	0.59-0.25	0/-18	D	74A							
				ICN-2S39-N						N								
				ICN-2S54	89-86	1.20	10	0.75-0.32		-20/-29		D						
				ICN-2S54-N								N						
				ICN-2S54-90C-SC								B	78					
	347-480		Optanium	IOP-2PSP54-SC	88-85	1.20	10	0.73-0.31	-20/-29	L	74A							
				HCN-2S54-90C-WL								89	1.20	10	0.26-0.19	78		
				Optanium								HOP-2PSP54-L	87	1.00	10	0.25-0.18	78	
3	120-277	PS	Centium	ICN-4S54-90C-2LS-G	133-132	1.20	10	1.11-0.49	-20/-29	G	75A							
			Optanium	IOP-4P2P54-2LS-G	128-127	1.20	10	1.07-0.31			80							
	347-480		Centium	HCN-4S54-90C-2LS-G	137-135	1.20	10	0.40-0.29			75A							
			Optanium	HOP-4PSP54-2LS-G	129	1.00	10	0.38-0.28			80							
4	120-277	PS	Centium	ICN-4S54-90C-2LS-G	176-173	1.20	10	1.47-0.64	-20/-29	G	75							
			Optanium	IOP-4P2P54-2LS-G	170-167	1.20	10	1.42-0.61			79							
	347-480		Centium	HCN-4S54-90C-2LS-G	182-180	1.20	10	0.53-0.38			75							
			Optanium	HOP-4PSP54-2LS-G	172	1.00	10	0.50-0.37			79							

Refer to page I-37 for dimensions

Refer to pages I-27, I-35 & I-36 for wiring diagrams

Refer to pages 9-23 to 9-27 for lead lengths and shipping data

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