

COMPACT FLUORESCENT ELECTRONIC BALLAST

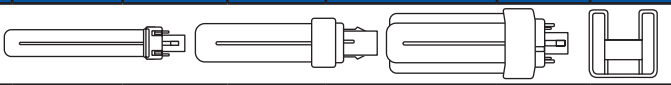
Specifications

- Ballast shall have a five-year warranty with maximum case temperature of 70°C or three-year warranty with maximum case temperature of 90°C.
- Ballast shall be UL certified.
- Ballast shall be sound rated Class A.
- Ballast shall be Class P Type 1 Outdoor.
- Ballast shall have a Lamp Current Crest Factor of <1.7.
- Ballast shall withstand line transients as specified in ANSI C62.41.
- Ballast shall comply with the limits of FCC Part 18C Class B (Consumer).
- Ballast shall have a lamp operating frequency greater than 40KHz.
- Ballast shall have color-coded, dual entry poke-in connectors.
- Ballast shall ignite lamps within 900ms.
- Ballast shall have a 0°F minimum lamp starting temperature for primary lamp(s).
- Ballast shall be Program Start.
- Ballast shall be Series Lamp Operation.
- Ballast shall have a minimum Power Factor of 97% for primary lamp operation.
- Ballast shall operate within a +/- 10% of the ballast specified line voltage at an input frequency of 50Hz or 60Hz.
- Ballast shall have a maximum case hot spot temperature of 90°C.
- Ballast shall have end of lamp life protection.
- Ballast shall have auto restart.

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	Number of Lamps per Ballast	Lamp Watts	Ballast Model Number	Line Voltage	Line Current (amps)	Input Watts (ANSI)	Total Harmonic Distortion Rating	Ballast Factor (ANSI)	Ballast Efficacy Factor
*Primary Lamp Design									
CF7SE	1	7	EP2/13CF/MV/K2	120	0.08	9	<10%	0.88	9.53
CF7SE	1	7	EP2/13CF/MV/K2	277	0.04	10	<20%	0.93	9.42
CF7SE	2	7	EP2/13CF/MV/K2	120	0.14	16	<10%	0.91	5.59
CF7SE	2	7	EP2/13CF/MV/K2	277	0.06	17	<20%	0.91	5.48
CF9SE	1	9	EP2/13CF/MV/K2	120	0.09	11	<10%	0.92	8.37
CF9SE	1	9	EP2/13CF/MV/K2	277	0.05	12	<20%	1.00	8.42
CF9SE	2	9	EP2/13CF/MV/K2	120	0.16	19	<10%	0.92	4.7
CF9SE	2	9	EP2/13CF/MV/K2	277	0.08	21	<15%	0.98	4.77
2D10W	1	10	EP2/13CF/MV/K2	120	0.11	13	<10%	0.92	7.09
2D10W	1	10	EP2/13CF/MV/K2	277	0.05	13	<20%	0.93	6.93
2D10W	2	10	EP2/13CF/MV/K2	120	0.2	24	<10%	0.94	3.9
2D10W	2	10	EP2/13CF/MV/K2	277	0.09	24	<15%	0.97	4.01

	Number of Lamps per Ballast	Lamp Watts	Ballast Model Number	Line Voltage	Line Current (amps)	Input Watts (ANSI)	Total Harmonic Distortion Rating	Ballast Factor (ANSI)	Ballast Efficacy Factor
CF13DE	1	13	EP2/13CF/MV/K2	120	0.15	17	<10%	1.04	6.02
CF13DE	1	13	EP2/13CF/MV/K2	277	0.07	18	<20%	1.05	5.93
CF13DE*	2	13	EP2/13CF/MV/K2	120	0.27	33	<10%	1.03	3.17
CF13DE*	2	13	EP2/13CF/MV/K2	277	0.12	32	<10%	1.04	3.23
CF13TE	1	13	EP2/13CF/MV/K2	120	0.14	16	<10%	0.97	6.04
CF13TE	1	13	EP2/13CF/MV/K2	277	0.06	16	<20%	0.96	5.9
CF13TE*	2	13	EP2/13CF/MV/K2	120	0.25	30	<10%	0.92	3.1
CF13TE*	2	13	EP2/13CF/MV/K2	277	0.11	29	<10%	0.93	3.17
2D10W	1	10	EP2/13CF/MV/K2	120	0.11	13	<10%	0.92	7.09
2D10W	1	10	EP2/13CF/MV/K2	277	0.05	13	<20%	0.93	6.93
2D10W	2	10	EP2/13CF/MV/K2	120	0.2	24	<10%	0.94	3.9
2D10W	2	10	EP2/13CF/MV/K2	277	0.09	24	<15%	0.97	4.01
2D16W	1	16	EP2/13CF/MV/K2	120	0.15	18	<10%	0.9	5.08
2D16W	1	16	EP2/13CF/MV/K2	277	0.07	18	<20%	0.9	5.04
2D16W	2	16	EP2/18CF/MV/K2	120	0.32	38	<10%	1.02	2.7
2D16W	2	16	EP2/18CF/MV/K2	277	0.14	38	<10%	1.08	2.81
CF18DE	1	18	EP2/18CF/MV/K2	120	0.19	23	<10%	1.12	4.8
CF18DE	1	18	EP2/18CF/MV/K2	277	0.09	23	<15%	1.13	4.83
CF18DE*	2	18	EP2/18CF/MV/K2	120	0.36	44	<10%	1.08	2.48
CF18DE*	2	18	EP2/18CF/MV/K2	277	0.16	42	<10%	1.08	2.54
CF18TE	1	18	EP2/18CF/MV/K2	120	0.18	21	<10%	1.03	4.91
CF18TE	1	18	EP2/18CF/MV/K2	277	0.08	21	<15%	1.04	4.88
CF18TE*	2	18	EP2/18CF/MV/K2	120	0.33	39	<10%	0.98	2.52
CF18TE*	2	18	EP2/18CF/MV/K2	277	0.14	39	<10%	1.11	2.88
2D21W	1	21	EP2/18CF/MV/K2	120	0.17	20	<10%	0.84	4.11
2D21W	1	21	EP2/18CF/MV/K2	277	0.08	21	<15%	0.84	4.07

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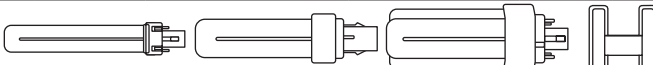
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	Number of Lamps per Ballast	Lamp Watts	Ballast Model Number	Line Voltage	Line Current (amps)	Input Watts (ANSI)	Total Harmonic Distortion Rating	Ballast Factor (ANSI)	Ballast Efficacy Factor
*Primary Lamp Design 									
2D21W	2	21	EP2/18CF/MV/K2	120	0.31	38	<10%	0.80	2.13
2D21W	2	21	EP2/18CF/MV/K2	277	0.14	37	<10%	0.80	2.15
CFQ26W/G24q*	2	26	EP2/26CF/MV/K2	120	0.43	51	<10%	1.00	1.96
CFQ26W/G24q*	2	26	EP2/26CF/MV/K2	277	0.19	51	<10%	1.00	1.96
CFQ26W/G24q	1	26	EP2/26CF/MV/K2	120	0.23	27	<10%	1.00	3.70
CFQ26W/G24q	1	26	EP2/26CF/MV/K2	277	0.10	27	<10%	1.00	3.70
CFTR26W/GX24q	2	26	EP2/26CF/MV/K2	120	0.45	54	<10%	1.00	1.85
CFTR26W/GX24q	2	26	EP2/26CF/MV/K2	277	0.20	54	<10%	1.00	1.85
CFTR26W/GX24q	1	26	EP2/26CF/MV/K2	120	0.24	29	<10%	1.10	3.79
CFTR26W/GX24q	1	26	EP2/26CF/MV/K2	277	0.11	29	<10%	1.10	3.79
CFTR42W/GX24q	1	42	EP2/26CF/MV/K2	120	0.38	46	<10%	0.98	2.13
CFTR42W/GX24q	1	42	EP2/26CF/MV/K2	277	0.17	46	<10%	0.98	2.13
CFTR32W/GX24q	1	32	EP2/26CF/MV/K2	120	0.31	36	<10%	0.98	2.72
CFTR32W/GX24q	1	32	EP2/26CF/MV/K2	277	0.13	36	<10%	0.98	2.72
CFTR57W/GX24q	1	57	EP2/26CF/MV/K2	120	0.43	52	<10%	0.81	1.56
CFTR57W/GX24q	1	57	EP2/26CF/MV/K2	277	0.19	51	<10%	0.82	1.61
CFQ57W/G24q	1	57	EP2/26CF/MV/K2	120	0.43	52	<10%	0.81	1.56
CFQ57W/G24q	1	57	EP2/26CF/MV/K2	277	0.19	51	<10%	0.82	1.61
CFS21W/GR10q	2	21	EP2/26CF/MV/K2	120	0.42	51	<10%	1.12	2.2
CFS21W/GR10q	2	21	EP2/26CF/MV/K2	277	0.18	51	<10%	1.12	2.2
FT24W/2G11	1	24	EP2/26CF/MV/K2	120	0.41	48	<10%	0.93	1.94
FT24W/2G11	1	24	EP2/26CF/MV/K2	277	0.18	48	<10%	0.93	1.94
FT24W/2G11	2	24	EP2/26CF/MV/K2	120	0.21	26	<10%	0.90	3.52
FT24W/2G11	2	24	EP2/26CF/MV/K2	277	0.10	26	<10%	0.89	3.46

	Number of Lamps per Ballast	Lamp Watts	Ballast Model Number	Line Voltage	Line Current (amps)	Input Watts (ANSI)	Total Harmonic Distortion Rating	Ballast Factor (ANSI)	Ballast Efficacy Factor
FT18W/2G11	2	18	EP2/26CF/MV/K2	120	0.27	33	<10%	0.73	2.24
FT18W/2G11	2	18	EP2/26CF/MV/K2	277	0.12	33	<10%	0.74	2.26
F24T5 HO	2	24	EP2/26CF/MV/K2	120	0.44	51	<10%	1.00	1.96
F24T5 HO	2	24	EP2/26CF/MV/K2	277	0.19	51	<10%	1.00	1.96
FC16T9 40W	1	40	EP2/26CF/MV/K2	120	0.36	43	<10%	1.00	2.33
FC16T9 40W	1	40	EP2/26CF/MV/K2	277	0.16	43	<10%	1.00	2.33
FC12T5 40W	1	40	EP2/26CF/MV/K2	120	0.28	34	<10%	0.74	2.17
FC12T5 40W	1	40	EP2/26CF/MV/K2	277	0.13	34	<10%	0.75	2.18
FC9T5 22W	1	22	EP2/26CF/MV/K2	120	0.22	27	<10%	1.02	3.84
FC9T5 22W	1	22	EP2/26CF/MV/K2	277	0.08	27	<12%	1.03	3.82
CFM36W/2G10	1	36	EP2/42CF/MV/K2	120	0.27	33	<10%	0.80	2.45
CFM36W/2G10	1	36	EP2/42CF/MV/K2	277	0.13	33	<15%	0.80	2.44
CFM36W/2G10	2	36	EP2/42CF/MV/K2	120	0.52	63	<10%	0.78	1.25
CFM36W/2G10	2	36	EP2/42CF/MV/K2	277	0.23	62	<10%	0.79	1.27
CFQ26W/G24q	1	26	EP2/42CF/MV/K2	120	0.27	32	<10%	1.00	3.12
CFQ26W/G24q	1	26	EP2/42CF/MV/K2	277	0.13	32	<12%	1.00	3.12
CFQ26W/G24q	2	26	EP2/42CF/MV/K2	120	0.45	54	<10%	0.90	1.67
CFQ26W/G24q	2	26	EP2/42CF/MV/K2	277	0.21	54	<12%	0.90	1.67
CFS28W/GR10q	1	28	EP2/42CF/MV/K2	120	0.29	34	<10%	1.00	2.94
CFS28W/GR10q	1	28	EP2/42CF/MV/K2	277	0.14	34	<10%	1.00	2.94
CFTR26W/GX24q	1	26	EP2/42CF/MV/K2	120	0.27	32	<10%	1.00	3.12
CFTR26W/GX24q	1	26	EP2/42CF/MV/K2	277	0.13	32	<12%	1.00	3.12
CFTR26W/GX24q	2	26	EP2/42CF/MV/K2	120	0.45	54	<10%	0.90	1.67
CFTR26W/GX24q	2	26	EP2/42CF/MV/K2	277	0.21	54	<12%	0.90	1.67

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CFTR32W/GX24q	1	32	EP2/42CF/MV/K2	120	0.35	42	<10%	0.96	2.29
CFTR32W/GX24q	1	32	EP2/42CF/MV/K2	277	0.13	42	<12%	0.96	2.29
CFTR32W/GX24q	2	32	EP2/42CF/MV/K2	120	0.53	63	<10%	0.95	1.51
CFTR32W/GX24q	2	32	EP2/42CF/MV/K2	277	0.23	63	<12%	0.95	1.51

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CFTR42W/GX24q	1	42	EP2/42CF/MV/K2	120	0.4	47	<10%	1.00	2.13
CFTR42W/GX24q	1	42	EP2/42CF/MV/K2	277	0.18	47	<10%	1.00	2.13
CFTR42W/GX24q*	2	42	EP2/42CF/MV/K2	120	0.77	94	<10%	1.00	1.14
CFTR42W/GX24q*	2	42	EP2/42CF/MV/K2	277	0.38	93	<10%	1.00	1.08
CFTR57W/GX24q	1	57	EP2/42CF/MV/K2	120	0.49	58	<10%	1.00	1.72
CFTR57W/GX24q	1	57	EP2/42CF/MV/K2	277	0.22	58	<12%	1.00	1.72
CFTR70W/GX24q	1	70	EP2/42CF/MV/K2	120	0.61	73	<10%	1.00	1.37
CFTR70W/GX24q	1	70	EP2/42CF/MV/K2	277	0.27	73	<12%	1.00	1.37

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FC12T5 40W	1	40	EP2/42CF/MV/K2	120	0.31	37	<10%	0.84	2.24
FC12T5 40W	1	40	EP2/42CF/MV/K2	277	0.14	37	<15%	0.84	2.24
FC12T5 40W	2	40	EP2/42CF/MV/K2	120	0.59	70	<10%	0.80	1.13
FC12T5 40W	2	40	EP2/42CF/MV/K2	277	0.26	70	<10%	0.81	1.15
FC9T5 22W	2	22	EP2/42CF/MV/K2	120	0.44	52	<10%	1.10	2.11
FC9T5 22W	2	22	EP2/42CF/MV/K2	277	0.19	52	<12%	1.10	2.11
FC9T5+FC12T5	1+1	22 40	EP2/42CF/MV/K2	120	0.55	67	<10%	0.90	1.34
FC9T5+FC12T5	1+1	22 40	EP2/42CF/MV/K2	277	0.25	67	<10%	0.90	1.34
FT24W/2G11	1	24	EP2/42CF/MV/K2	120	0.22	26	<10%	0.92	3.56
FT24W/2G11	1	24	EP2/42CF/MV/K2	277	0.1	27	<15%	0.92	3.48
FT24W/2G11	2	24	EP2/42CF/MV/K2	120	0.45	54	<10%	1.00	1.85
FT24W/2G11	2	24	EP2/42CF/MV/K2	277	0.2	54	<10%	1.00	1.85

	Number of Lamps per Ballast	Lamp Watts	Ballast Model Number	Line Voltage	Line Current (amps)	Input Watts (ANSI)	Total Harmonic Distortion Rating	Ballast Factor (ANSI)	Ballast Efficacy Factor
FT36W/2G11	1	36	EP2/42CF/MV/K2	120	0.31	37	<10%	0.88	2.38
FT36W/2G11	1	36	EP2/42CF/MV/K2	277	0.14	37	<12%	0.88	2.38
FT36W/2G11	2	36	EP2/42CF/MV/K2	120	0.55	66	<10%	0.8	1.21
FT36W/2G11	2	36	EP2/42CF/MV/K2	277	0.24	65	<10%	0.8	1.21
FT39W/2G11	1	39	EP2/42CF/MV/K2	120	0.37	45	<10%	1.00	2.22
FT39W/2G11	1	39	EP2/42CF/MV/K2	277	0.17	45	<12%	1.00	2.22
FT39W/2G11	2	39	EP2/42CF/MV/K2	120	0.69	82	<10%	0.95	1.16
FT39W/2G11	2	39	EP2/42CF/MV/K2	277	0.3	82	<10%	0.95	1.16
FT40W/2G11	1	40	EP2/42CF/MV/K2	120	0.37	45	<10%	1.00	2.22
FT40W/2G11	1	40	EP2/42CF/MV/K2	277	0.17	45	<12%	1.00	2.22
FT40W/2G11	2	40	EP2/42CF/MV/K2	120	0.69	82	<10%	0.95	1.16
FT40W/2G11	2	40	EP2/42CF/MV/K2	277	0.3	82	<10%	0.95	1.16
FT55W/2G11	1	55	EP2/42CF/MV/K2	120	0.36	43	<10%	0.71	1.65
FT55W/2G11	1	55	EP2/42CF/MV/K2	277	0.16	44	<12%	0.72	1.66

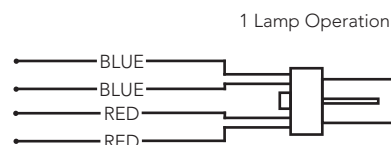
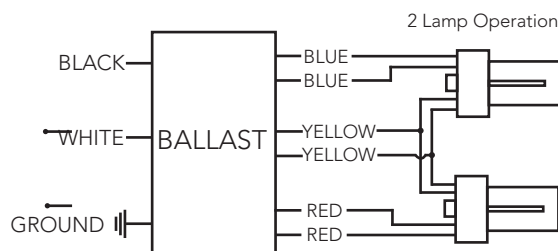
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Wiring Diagrams, Case Dimensions & Lamp Guide • • • • •

EP2/13CF/MV/K2 Wiring Diagram



***Cap or removed unused Yellow Leads