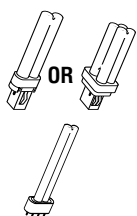


TWIN LAMPS

5, 7, 9 & 11 WATTS



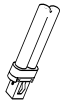
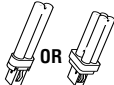
- Open core & coil or enclosed & potted designs
- 1 & 2 lamp models available
- Ideal for surface mount fixtures, exit & retail display signs

MAGNETIC AND ELECTRONIC COMPACT FLUORESCENT BALLASTS

FOR TWIN LAMPS 5, 7, 9 AND 11 WATTS

QUICK REFERENCE

Nominal lamp watts and configuration

Lamp Type	Mag or Elec	Qty of Lamps	Line Volt	Catalog Number	Input Watts	Line Current Amps	Starting Current Amps	Ballast Factor	Min Start Temp	Power Factor	THD	Lead Configuration			Starting Method	Dim	Wir Diag	
												Side Exit	Bottom Exit	Bottom Exit Studs				
Electrical Characteristics - 60 Hz																		
7 Watts	<input type="radio"/>	M	1	120	4105F2P [■] ★	10	0.18	0.20	0.95	0° F	Normal	<10%	X	—	—	PH	B2	1
CFT7W/G23		M	1	120	4105P	10	0.18	0.20	0.95	0° F	Normal	<10%	X	—	—	PH	C1	1
 <p>Twin, 2-Pin</p>																		
9 Watts	<input type="radio"/>	M	1	120	4105F2P [■] ★	10	0.18	0.20	0.90	25° F	Normal	<10%	X	—	—	PH	B2	1
CFT9W/G23		M	1	120	4105P	10	0.18	0.20	0.90	25° F	Normal	<10%	X	—	—	PH	C1	1
OR																		
CFQ9W/G23																		
 <p>Twin or Quad, 2-Pin</p>																		

- ★ Non-thermally protected models available.
- ☆ PH = Preheat
- F2 indicates an open core & coil unit with mounting feet.
- H2 indicates clamped & covered core & coil with mounting feet.
- ⊕ Add "B" for Bottom Exit or "S" for Side Exit or "BS" for Bottom Exit with 2" O.C. screw studs.
- Not approved for use in hazardous locations.

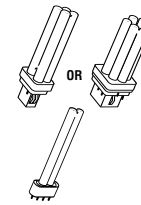
The enclosed ballasts listed on this page are available in white (001) or black (000) cans, except CBT's, which are all in white cans. All ballasts are UL listed, CSA approved and designated Class P (thermally protected).

See page 4-13 for Dimensions and Wiring Diagrams.

MAGNETIC AND ELECTRONIC COMPACT FLUORESCENT BALLASTS FOR TWIN, QUAD AND MULTIPLE LAMPS

13 WATTS

- Ideal for downlights & wall sconces
- Electronic models feature universal input voltage from 120V to 277V. 347V models are also available.
- Electronic models feature programmed rapid start for excellent lamp performance & auto reset shutdown circuit

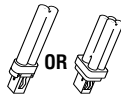


**TWIN, QUAD
& MULTIPLE
LAMPS
13 WATTS**

QUICK REFERENCE
Nominal lamp watts and configuration

Lamp Type

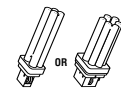
13 Watts
CFT13W/GX23
OR
CFQ13W/GX23



**Twin or Quad,
2-Pin
U.S. type lamp**

Lamp Type

13 Watts
CFQ13W/G24q
OR
CFM13W/GX24q



**Quad or
Multiple,
4-Pin**

Lamp Type

13 Watts
CFT13W/2GX7



**Twin T4,
4-Pin**

Mag or Elec	Qty of Lamps	Line Volt	Catalog Number	Input Watts	Line Current Amps	Starting Current Amps	Ballast Factor	Min Start Temp	Power Factor	THD	Lead Configuration			Starting Method	Dim	Wir Diag
											Side Exit	Bottom Exit	Bottom Exit Studs			
Electrical Characteristics - 60 Hz																
○ M	1	120	CF1320H2P■	16	0.24	0.30	0.85	32° F	Normal	<15%	X	—	—	PH	B10	1
○ M	1	120	4113P	14	0.24	0.36	0.80	32° F	Normal	<10%	X	—	—	PH	C2	1
○ M	1	277	4211F2P■*	22	0.16	0.35	1.00	32° F	Normal	<10%	X	—	—	PH	B3	1
○ M	1	277	4211PBES	22	0.16	0.35	1.00	32° F	Normal	<10%	X	—	—	PH	C3	1
M	1	120	4112P	14	0.13	0.14	0.80	32° F	High	<20%	X	X	X	PH	C2	2
M	1	120	4113P	14	0.24	0.36	0.90	32° F	Normal	<10%	X	X	X	PH	C2	1
M	1	277	4210PBES	21	0.10	0.11	1.00	32° F	High	<20%	X	X	X	PH	C3	2
M	2	120	4114P	31	0.26	0.33	0.95	32° F	High	<20%	X	—	X	PH	C5	8
M	2	277	4214PBES	26	0.09	0.09	0.85	32° F	High	<20%	X	—	X	PH	C4	9
E	1	120/277	C213UNV♦×	18	0.15/0.07	—	1.00	0° F	High	<10%/<15%	X	X	X	PRS	C10	18
E	2	120/277	C213UNV♦×	30	0.26/0.11	—	1.00	0° F	High	<10%	X	X	X	PRS	C10	19
E	1/2	347	C213/347♦	18/33	0.06/0.10	—	1.00/0.98	0° F	High	<10%	X	X	X	PRS	C10	18/19
E	1	120/277	CT213UNV♦	15	0.12/0.06	—	0.98	0° F	High	<10%/<12%	X	X	X	PRS	C10	20+
E	2	120/277	CT213UNV♦	26	0.22/0.10	—	0.98	0° F	High	<10%	X	X	X	PRS	C10	20

*Non-thermally protected models available.

♦ PH = Preheat; PRS = Programmed Rapid Start; RS=Rapid Start

F2 indicates an open core & coil unit with mounting feet.

H2 indicates clamped & covered core & coil with mounting feet.

◆ Add following suffix for complete catalog #: "SE" for Side Exit connectors or "BE" suffix for Bottom Exit connectors or "BES" for Bottom Exit connectors with 2" O.C. screw studs.

○ Not approved for use in hazardous locations.

✕ Add "ME" suffix for Mult-E Kit. For Distribution only.

⊕ Add "B" suffix for Bottom Exit or "S" for Side Exit or "BS" for Bottom Exit with 2" O.C. screw studs.

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See page 4-13 for Dimensions and Wiring Diagrams.