

Packaging
Ballasts are packaged either individually or in multi-count cartons. Unless cartons are specified on the order, "I" packs will be shipped, when available.

Abbreviations	
UNV	UNiVersal input voltage (120V through 277V)
SE	Side Exit
BE	Bottom Exit
BES	Bottom Exit with Studs

Type Legend	
Code	Product
ECF	Electronic Compact Fluorescent Ballast
MCF	Magnetic Compact Fluorescent Ballast
ELF	Electronic Linear Fluorescent Ballast
MLF	Magnetic Linear Fluorescent Ballast
LFP	Linear Fluorescent Ballast Part
HID	High Intensity Discharge Ballast
HIDC	High Intensity Discharge Ballast Capacitor
HIDP	High Intensity Discharge Ballast Part
SIGN	Magnetic Linear Fluorescent SIGN Ballast

Input frequency of operation for all ballasts listed herein is 60 Hz



**Stocking Distributor Net Price Sheet  
DPS0101G**

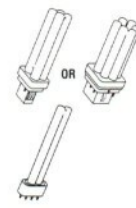
Product Code (UPC #768386xxxx)		Product	Price per Unit			Type and Primary Application/Description	Standard Package	
Individual	Carton		Stocking Distributor (GOLD)	Trade (BLUE)	List (PINK)		Quantity	Weight (lbs.)
<b>ELECTRONIC COMPACT FLUORESCENT BALLASTS (ECF)</b>								
20056	19036	C213/347BE	\$ 39.93	\$ 79.86	\$ 99.83	ECF (2) CFQ13W/G24q PS 347V	20	12.0
20057	19039	C213/347BES	\$ 40.14	\$ 80.28	\$ 100.35	ECF (2) CFQ13W/G24q PS 347V	20	12.0
20058	19033	C213/347SE	\$ 39.67	\$ 79.34	\$ 99.18	ECF (2) CFQ13W/G24q PS 347V WHITE CAN	20	12.0
19815	17814	C213UNVBE	\$ 39.93	\$ 79.86	\$ 99.83	ECF (2) CFQ13W/G24q PS UNV	20	8.0
19816	17816	C213UNVBES	\$ 40.14	\$ 80.28	\$ 100.35	ECF (2) CFQ13W/G24q PS UNV	20	8.0
19817	17815	C213UNVSE	\$ 39.67	\$ 79.34	\$ 99.18	ECF (2) CFQ13W/G24q PS UNV WHITE CAN	20	12.0
20000	19999	C218/347BE	\$ 39.82	\$ 79.64	\$ 99.55	ECF (2) CFQ18W/G24q PH 347V	20	11.4
20001	19032	C218/347BES	\$ 40.29	\$ 80.58	\$ 100.73	ECF (2) CFQ18W/G24q PH 347V	20	12.0
20003	20002	C218/347SE	\$ 39.57	\$ 79.14	\$ 98.93	ECF (2) CFQ18W/G24q PH 347V WHITE CAN	20	11.4
19811	17817	C218UNVBE	\$ 39.82	\$ 79.64	\$ 99.55	ECF (2) CFQ18W/G24q PS UNV	20	12.0
19812	17820	C218UNVBES	\$ 40.29	\$ 80.58	\$ 100.73	ECF (2) CFQ18W/G24q PS UNV	20	12.0
19813	17818	C218UNVSE	\$ 39.77	\$ 79.54	\$ 99.43	ECF (2) CFQ18W/G24q PS UNV WHITE CAN	20	8.0
-	12285	C240I120RH	\$ 42.21	\$ 84.42	\$ 105.53	ECF (2) FT40W/2G11 IS 120V	10	27.0
-	12286	C240I277RH	\$ 50.52	\$ 101.04	\$ 126.30	ECF (2) FT40W/2G11 IS 277V	10	27.0
-	17824	C240PUNVHP-B	\$ 55.07	\$ 110.14	\$ 137.68	ECF (2) FT40W/2G11 PS UNV	10	11.0
20188	19089	C242/347BE	\$ 46.15	\$ 92.30	\$ 115.38	ECF (2) CFM42W/GX24q PS 347V	20	16.0
20189	19092	C242/347BES	\$ 46.45	\$ 92.90	\$ 116.13	ECF (2) CFM42W/GX24q PS 347V	20	16.0
-	19086	C242/347SE	\$ 45.85	\$ 91.70	\$ 114.63	ECF (2) CFM42W/GX24q PS 347V WHITE CAN	20	16.0
19764	19079	C242UNVBE	\$ 60.20	\$ 120.40	\$ 150.50	ECF (2) CFM42W/GX24q PS UNV	20	16.0
19769	19083	C242UNVBES	\$ 60.59	\$ 121.18	\$ 151.48	ECF (2) CFM42W/GX24q PS UNV	20	16.0
19772	19076	C242UNVSE	\$ 59.81	\$ 119.62	\$ 149.53	ECF (2) CFM42W/GX24q PS UNV WHITE CAN	20	16.0
-	19928	C255PUNV-D	\$ 68.82	\$ 137.64	\$ 172.05	ECF (2) FT55W/2G11 PS UNV WHITE CAN	10	12.5
19921	19098	C2642/347BE	\$ 44.50	\$ 89.00	\$ 111.25	ECF (2) CFQ26W/G24q PS 347V	20	12.0
19922	19101	C2642/347BES	\$ 44.77	\$ 89.54	\$ 111.93	ECF (2) CFQ26W/G24q PS 347V	20	12.0
19923	19095	C2642/347SE	\$ 44.23	\$ 88.46	\$ 110.58	ECF (2) CFQ26W/G24q PS 347V WHITE CAN	20	12.0

\* These items are excluded from standard distributor discount; special net pricing may be available

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

## 18 WATTS

- Ideal for downlights, surface mount & outdoor fixtures
- 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**  
**18 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			
<b>Electrical Characteristics - 60 Hz</b>																	
<b>18 Watts</b>																	
CFQ18W/G24q	E	1	120	C218UNV♦	22	0.19	—	1.00	0° F	High	<10%	X	X	X	PRS	C10	18
			277			0.08											
OR																	
CFM18W/GX24q	E	2	120	C218UNV♦	40	0.34	—	0.98	0° F	High	<10%	X	X	X	PRS	C10	19
			277			0.15											
	E	1	347	C218/347♦	21	0.11	—	1.00	0° F	High	<10%	X	X	X	PRS	C10	18
		2			38	0.06		0.98									19
<b>Quad or Multiple, 4-Pin</b>																	
<b>18 Watts</b>																	
FT18W/2G11RS	E	1	120	CT218UNVSE♦	23	0.19	—	1.00	0° F	High	<10%	X	—	—	PRS	C10	18
			277			0.07											
	E	2	120	CT218UNVSE♦	43	0.37	—	0.98	0° F	High	<10%	X	—	—	PRS	C10	19
			277		42	0.16											
<b>Twin T5, 4-Pin,</b>																	



Quad or Multiple, 4-Pin



Twin T5, 4-Pin,

- ♦ PRS = Programmed Rapid Start
- ◆ 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.

The enclosed ballasts listed on this page are available in white (001) or black (000) cans. All ballasts are UL listed, CSA approved and designated Class P (thermally protected), Type HL.

### WIRING DIAGRAMS

Install in accordance with National Electrical Code.

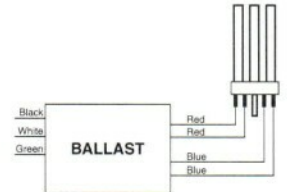


DIAGRAM 18

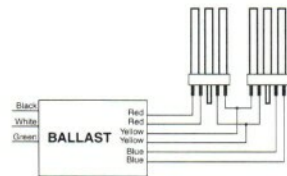
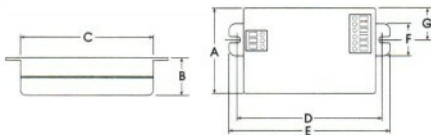


DIAGRAM 19  
Series lamp operation

### DIMENSION DRAWING FOR C10



Dwg.	A	B	C	D	E	F	G
C10	2.31"	1.00"	4.25"	4.61"	4.94"	0.98"	1.00"

Leadless-Poke-in wire connection



# MAGNETIC & ELECTRONIC COMPACT FLUORESCENT BALLASTS FOR 2D LAMPS

## 21 WATTS

- Ideal for surface mount fixtures
- All magnetic models are encased & potted.
- Magnetic and electronic models available.
- 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



**2D  
LAMPS  
21 WATTS**

### QUICK REFERENCE

Nominal lamp watts and configuration

**Lamp Type**  
21 Watts  
CFS21W/GR10q



2D, 4-Pin

Mag or Elec	Qty of Lamps	Line Volt	Catalog #	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			
<b>Electrical Characteristics - 60 Hz</b>																
M	1	120	4119P	24	0.50	0.48	0.81	32° F	Normal	<20%	X	X	X	PH	C5	5
M	1	277	4219P	23	0.25	0.29	0.85	32° F	Normal	<20%	X	X	X	PH	C3	4
M	1	120	4120P	24	0.21	0.29	0.81	32° F	High	<20%	X	X	X	PH	C4	5
M	1	277	4220P	23	0.07	0.29	0.85	32° F	High	<20%	X	X	X	PH	C3	5
M	2	120	4122RP	38	0.34	0.25	0.72	32° F	High	<20%	X	X	X	PH	C6	12
M	2	277	4222P	46	0.17	0.29	0.81	32° F	High	<20%	X	X	X	PH	C4	9
E	1	120	C218UNV	24	0.18	—	0.98	0° F	High	<10%	X	X	X	PRS	C10	18
E	1	277		24	0.08	—	0.98	0° F	High	<10%	X	X	X	PRS	C10	18
E	1	347	C218/347	21	0.06	—	0.98	0° F	High	<10%	X	X	X	PRS	C10	18
E	2	120	C218UNV	43	0.37	—	0.95	0° F	High	<10%	X	X	X	PRS	C10	19
E	2	277		43	0.16	—	0.95	0° F	High	<10%	X	X	X	PRS	C10	19
E	2	347	C218/347	39	0.12	—	0.95	0° F	High	<10%	X	X	X	PRS	C10	19

- Starter required: use COP-40 or FS-4 type fluorescent starter.
- ★ PH = Preheat; PRS = Programmed Rapid Start
- ▲ Standard cases offer side lead configuration. Add "BE" suffix for Bottom Exit design or "BES" for Bottom Exit Studs design.
- ◆ 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.

The enclosed ballasts listed on this page are available in white (001) or black (000) cans. All ballasts are UL listed, CSA approved and designated Class P (thermally protected), Type HL.

### WIRING DIAGRAMS

Install in accordance with National Electrical Code.

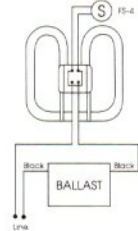


DIAGRAM 4

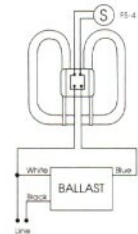
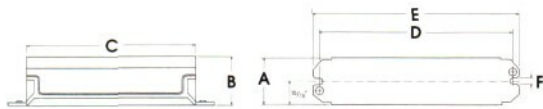


DIAGRAM 5

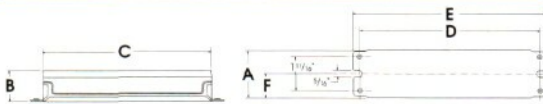
### DIMENSION DRAWING FOR C3, C4, C5



Dwg.	A	B	C	D	E	F
C3	2.14"	1.56"	3.50"	4.31"	4.75"	0.22"
C4	2.34"	1.53"	5.20"	6.00"	6.59"	0.31"
C5	1.88"	1.47"	5.13"	6.00"	6.44"	0.25"

Lead Lengths: Side—12"  
BE/BES—8"

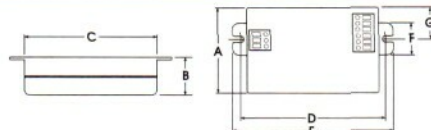
### DIMENSION DRAWING FOR C6



Dwg.	A	B	C	D	E	F
C6	2.40"	1.55"	8.31"	8.89"	9.50"	1.19"

Lead Lengths: Side—12"  
BE/BES—8"

### DIMENSION DRAWING FOR C10



Dwg.	A	B	C	D	E	F	G
C10	2.31"	1.00"	4.25"	4.61"	4.94"	0.98"	1.00"

Leadless-Poke-in wire connection

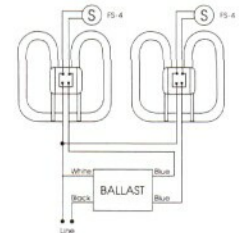


DIAGRAM 9  
Parallel lamp operation

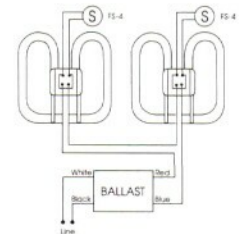


DIAGRAM 12  
Series lamp operation

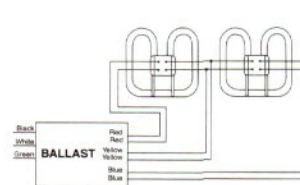


DIAGRAM 19  
Series lamp operation

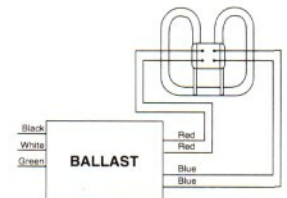
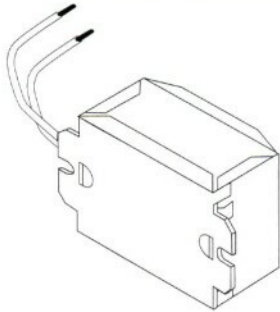


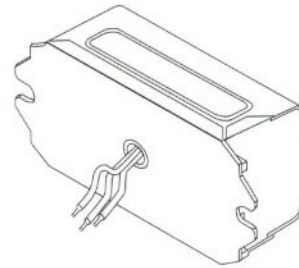
DIAGRAM 18

# Configurations

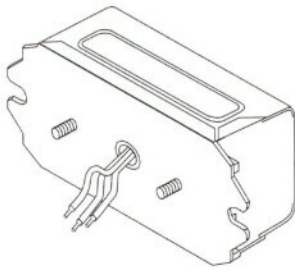
## Standard Side Exit



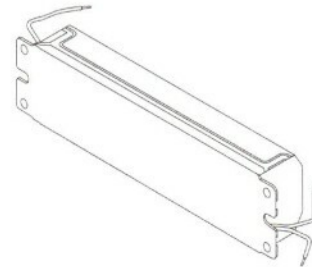
## Bottom Exit\*



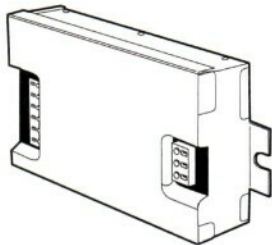
## Bottom Exit with Studs\*\*



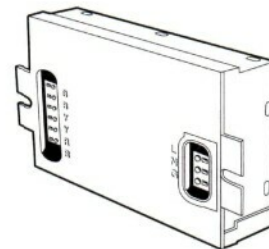
## Standard Side Exit—Both Ends



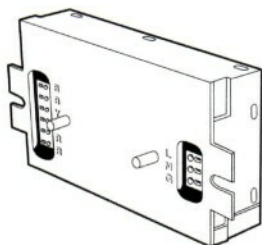
## Electronic Side Exit



## Electronic Bottom Exit



## Electronic Bottom Exit with Studs



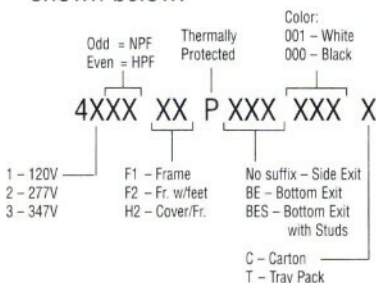
For full versatility in application according to various fixture requirements, Universal manufactures encased ballasts in three lead and mounting options. This catalog lists ordering codes for standard side exit units. \*Bottom exit units should be ordered with suffix “-BE” attached to the catalog number. \*\*Bottom exit with studs should be ordered with suffix “-BES” attached to the catalog number. (Example: Standard Unit: “4000P”; Bottom Exit unit “4000-BE”; Bottom Exit with Studs: “4000-BES”).



# Understanding Universal Part Numbers

## MAGNETIC

Our part number nomenclature for magnetic ballasts is shown below:



**Example:** 4123PBES000T

**Ballast for CFL Lamps:** Indicated by "4" prefix

**Voltage:** 120V

**Lamp Type:** 26W Quad Lamp (refer to catalog for wattage)

**Power Factor:** Normal

**Encased and Potted:** Indicated by absence of F1, F2, or H2)

**P:** Thermally protected

**BES:** Bottom exit leads with studs

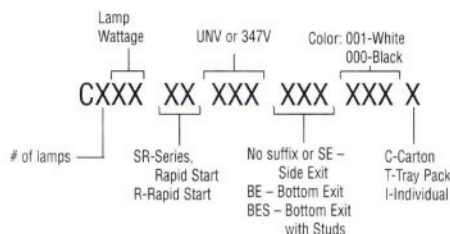
**000:** Color—Black

**T:** Packaging container style—Tray Pack

These ballasts are available for a wide variety of applications with lamps, voltages, mounting configurations, and performance characteristics. For more detailed information, just identify the lamps to be ballasted and work forward to determine the ballast part number.

## ELECTRONIC

Our nomenclature for electronic CFL ballasts follows the system already in place for other Universal electronic ballasts. The exceptions are that the model number prefix for compact fluorescent is a C rather than a B—and the suffixes for the mounting configuration will be the same as those used for magnetic products (BE and BES). If you don't see these suffixes, the ballast has traditional side exit leads.



**Example:Electronic** C240PUNVHP-B

**Ballast Type:** C — CFL Electronic Ballast

**Lamp Qty:** 2

**Lamp Type:** 40W TT5, 4 Pin (FT40W/2611)

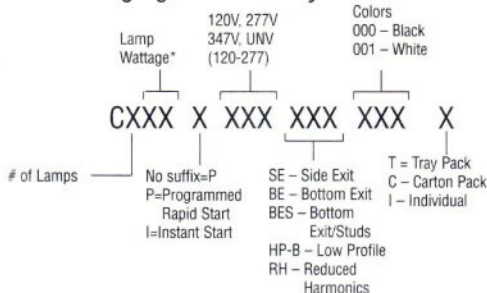
**P:** Programmed Rapid Start

**Voltage:** UNV 120 to 277 volts

**HP-B:** High Performance <10%; low profile can

**000:** Color—Black

**C:** Packaging container style—Carton Pack



**Example:** C213UNVBES000C\*

**Ballast Type:** C

**Lamp Quantity:** 2

**Lamp Type:** 13W Quad, 4 Pin (CFQ13W/G24q)

**Voltage:** UNV 120 to 277 volts

**BES:** Bottom exit connection, studs

**000C:** Color—Black

**C:** Packaging container style—Carton Pack

\*Exception is C2642, which does not distinguish number of lamps. See catalog.