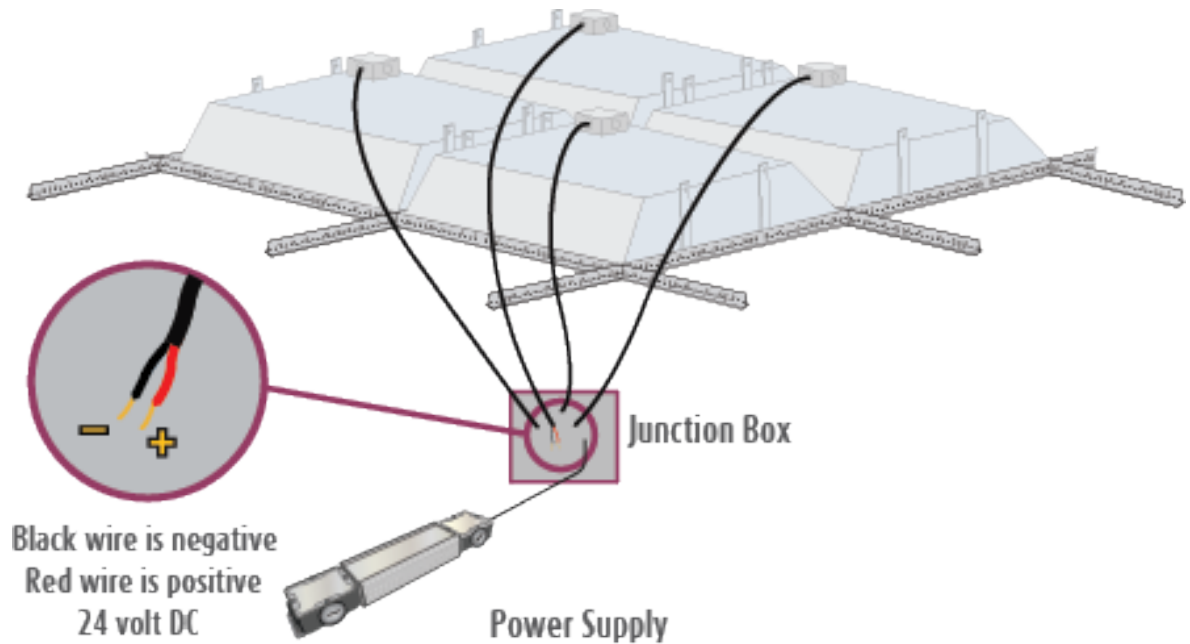


## Classic w/ EcoPlus Electrical Instructions (Fixture Only)



### Installation Instructions includes:

Classic w/ EcoPlus Electrical Instructions (Fixture Only)

Wiring Diagram EL001181

Total Wattage per Number of EcoPlus Fixtures

Installation specific wiring diagram (where applicable)

For technical support at any time during the installation, please call us **toll free at 866-759-3228**.  
We want your installation to go as smoothly as possible. Thank you for choosing Sky Factory.

## Classic w/ EcoPlus Electrical Requirements:

EP22 Series: EP22 (2' x 2'), EP22M (60cm x 60cm), EP22G (62.5cm x 62.5cm)

EP24 Series: EP24 (2' x 4'), EP24M (60cm x 120cm), EP24G (62.5cm x 125cm)

NOTE: For custom sizes and/or client-specified power supplies, see installation specific wiring diagram included (where applicable)

All EcoPlus fixtures are 24V DC only.

EcoPlus fixtures must be powered only by a UL Listed or CE Compliant 24V DC power supply with wattage greater than total wattage of EcoPlus fixtures.

Dry locations only.

For number of fixtures per power supply, see

“Total Wattage per Number of EcoPlus Fixtures” on page 6

For installations with one or more custom sizes, see

installation specific wiring diagram attached

For dimming requirements, see page 4.

RF filter, if used, is not provided by Sky Factory.

*Electrical work must be performed by a qualified electrician who is familiar with DC lighting systems and must conform to all local and national codes.*

## Non-Dimmable and Dimmable Certification:

ES22 Series, ES24 Series, ES26 Series, ES33 Series, ES34 Series, ES36 Series, ES44 Series, ES46 Series, ESCST Series, EP22 Series, EP24 Series, EP26 Series, EP33 Series, EP34 Series, EP36 Series, EP44 Series, EP46 Series, EP55 Series and EPCST Series fixtures when used with 24PS HLG Power System UL, CSA and CE Listed by Intertek Group plc

## Step 1: Wiring the EcoPlus fixtures to the power supply

See wiring diagram and chart on pages 5-6 and installation specific wiring diagram (where applicable)

EcoPlus Lighting System - EP22 and EP24 Series				
TSF Model No.	Dimensions: WxLxH	Weight	System Wattage (Max)	Input Current @ 24 Volts DC
EP22	23.6 x 23.6 x 5.63 (inches)	4.0 lb	23	0.96 A
EP24	23.75 x 47.75 x 5.85 (inches)	11.7 lb	47	1.96 A
EP22M	58.9 x 58.9 x 14.3 (cm)	1.8 kg	23	0.96 A
EP24M	59.4 x 119.4 x 14.86 (cm)	5.31 kg	47	1.96 A
EP22G	61.4 x 61.4 x 14.3 (cm)	2.1 kg	23	0.96 A
EP24G	61.9 x 124.4 x 14.86 (cm)	5.31 kg	47	1.96 A

NOTE: For custom sizes, see also installation specific wiring diagram



**Notice:** The LED fixtures are 24V DC ONLY.

AC voltage connected directly to the fixtures will destroy the lighting system.

Fixtures are wired together in single or multiple circuits. Each circuit may be arranged in rows or clusters, depending on installation.

A junction box with 1/2" trade size knock-outs is attached on top corner of each fixture.

- Power leads inside fixture junction box are polarized, red (+) and black (-).
- Where fixtures have multiple junction boxes, see installation specific wiring diagram included.
- Wire size 18 AWG stranded.

Wiring from fixtures to V DC side of client-provided power supply is polarized, positive (+) to positive (+) and negative (-) to negative (-):

Wire and additional junction boxes from the fixtures to the power supply provided by others.

Wire gauge must conform to local and national codes. Voltage drop of no more than 3% is recommended.

## Step 2: Dimming requirements

IMPORTANT: Use of Sky Factory approved dimming system only! Contact the Sky Factory if you plan on using a dimming system provided by others.



**Notice:** Dimming using non-approved systems may permanently damage LED's and will void the warranty!

In MRI applications, an RF Filter is required and is not provided by the Sky Factory.

## Step 3: Checking the polarity



**Notice:** CHECK THE POLARITY BEFORE TURNING ON POWER. MAKE SURE:

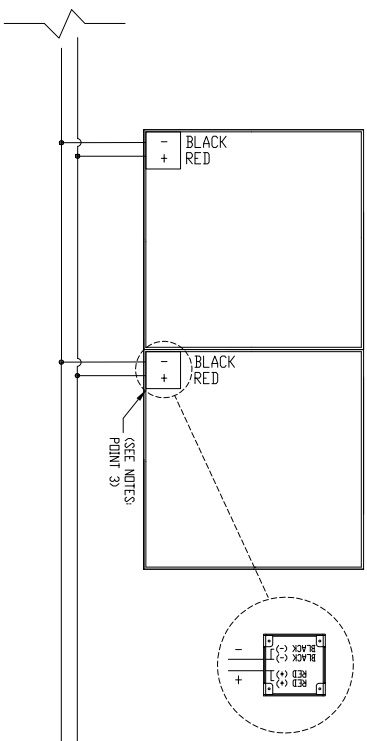
Red wires on the fixtures go to the “+” terminals of the power supply

Black wires on the fixtures go to the “-” terminals of the power supply

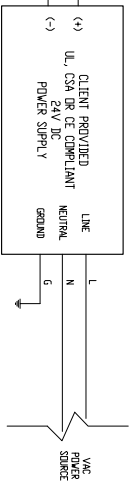
**IF THE SYSTEM IS WIRED BACKWARD, IT WILL DESTROY THE LED'S!**

EP AND ES SERIES FIXTURES  
WITH CLIENT PROVIDED POWER SUPPLY

- |                           |                           |
|---------------------------|---------------------------|
| ECDDLUS                   | ECDSLIM                   |
| EP22 SERIES, EP24 SERIES, | ES22 SERIES, ES24 SERIES, |
| EP26 SERIES, EP33 SERIES, | ES26 SERIES, ES33 SERIES, |
| EP34 SERIES, EP36 SERIES, | ES34 SERIES, ES36 SERIES, |
| EP44 SERIES, EP46 SERIES, | ES44 SERIES, ES46 SERIES, |
| EP55 SERIES, EPCST SERIES | ESCST SERIES              |



WIRE AND JUNCTION BOXES  
SUPPLIED BY OTHERS



TOTAL VOLTAGE OF POWER SUPPLY  
MUST BE EQUAL TO OR GREATER THAN  
TOTAL VOLTAGE OF FIXTURES  
POSITIVE (+) TO POSITIVE (+)  
NEGATIVE (-) TO NEGATIVE (-)

- NOTES:
1. ALL FIXTURES 24V DC ONLY.
  2. JUNCTION BOX ATTACHED TO EACH FIXTURE:  
WIRE SIZE 18 AWG STRANDED  
WIRE COLORS:  
RED (+) (POSITIVE)  
BLACK (-) (NEGATIVE)

3. EP36, 44, 46, 55 AND ES36, 44, 46 HAVE TWO SETS OF LEADS. ALWAYS CONNECT RED (+) TO RED (+) AND BLACK (-) TO BLACK (-).
  4. SEE ALSO TOTAL VOLTAGE PER NUMBER OF ECDSLIM FIXTURES CHART.
  5. USE OF SKY FACTORY APPROVED DIMMING SYSTEM ONLY. CONTACT THE SKY FACTORY IF YOU PLAN ON USING A DIMMING SYSTEM PROVIDED BY OTHERS.
- NOTICE: DIMMING USING NON-APPROVED SYSTEMS  
MAY PERMANENTLY DAMAGE LEDS AND WILL  
VOID THE WARRANTY!

<b>Sky Factory</b>	
MANUFACTURER OF DIMMING CONTROLS	10000 WILSON BLVD, SUITE 100, BOSTON, MA 02120
TEL: 617-552-3333	FAX: 617-552-3334
WWW.SKYFACTORY.COM	SALES@SKYFACTORY.COM
REVISIONS	DATE
1. INITIAL DESIGN	01/15/18
2. REVISED FOR FIELD	02/01/18
3. REVISED FOR FIELD	02/01/18
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# Total Wattage per Number of EcoPlus Fixtures

EP22 Series and EP24 Series fixtures must be powered by a UL Listed or CE Compliant 24V DC power supply.  
This table provides information for properly sizing a power supply given the number of fixtures in a given installation.

No. of EcoSlims	EP22 Series		EP24 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	0.96	23	1.96	47
2	1.92	46	3.92	94
3	2.88	69	5.88	141
4	3.84	92	7.84	188
5	4.8	115	9.8	235
6	5.76	138	11.76	282
7	6.72	161	13.72	329
8	7.68	184	15.68	376
9	8.64	207	17.64	423
10	9.6	230	19.6	470
11	10.56	253	21.56	517
12	11.52	276	23.52	564
13	12.48	299	25.48	611
14	13.44	322	27.44	658
15	14.4	345	29.4	705
16	15.36	368	31.36	752
17	16.32	391	33.32	799
18	17.28	414	35.28	846
19	18.24	437	37.24	893
20	19.2	460	39.2	940
21	20.16	483	41.16	987
22	21.12	506	43.12	1034
23	22.08	529	45.08	1081
24	23.04	552	47.04	1128
25	24	575	49	1175
26	24.96	598	50.96	1222
27	25.92	621	52.92	1269
28	26.88	644	54.88	1316
29	27.84	667	56.84	1363
30	28.8	690	58.8	1410
31	29.76	713	60.76	1457
32	30.72	736	62.72	1504
33	31.68	759	64.68	1551
34	32.64	782	66.64	1598
35	33.6	805	68.6	1645
36	34.56	828	70.56	1692