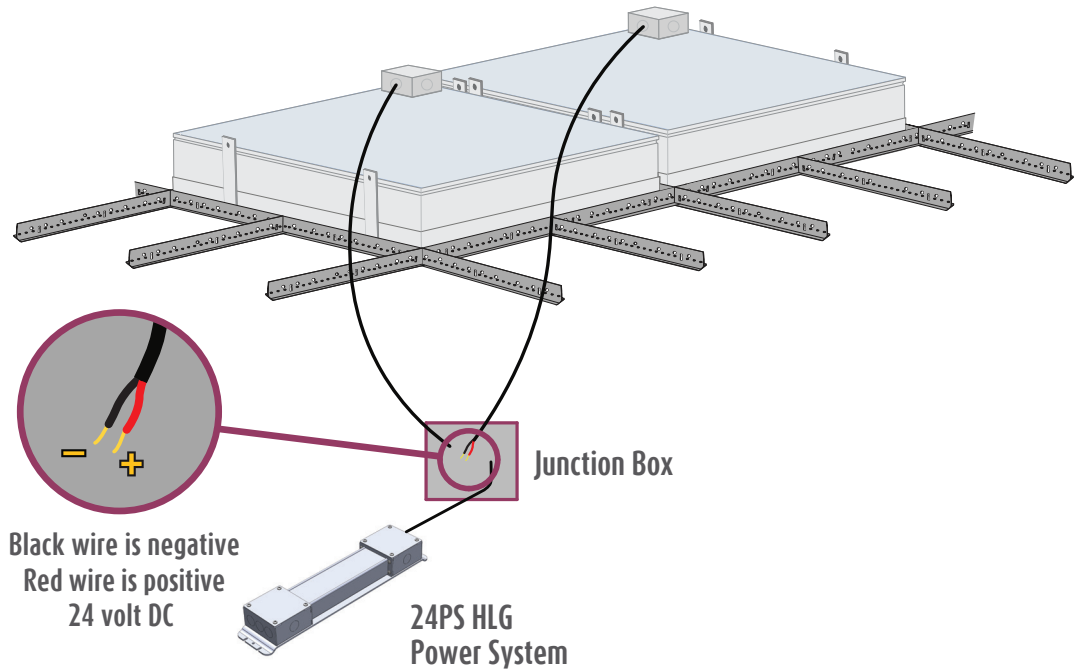


## Revelation w/ EcoPlus Electrical Instructions (24PS HLG)



### Installation Packet Includes:

Revelation w/ EcoPlus Electrical Instructions (24PS HLG)  
Installation specific wiring diagram (where applicable)

EcoPlus and EcoSlim Drawings and Charts (24PS HLG)  
Wiring Diagrams EL001199, EL001423, EL001447, EL001454, EL001455  
Sky Factory 24PS HLG Power System Dimensions and Weights  
Wire Sizing Chart

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.

## Revelation w/ EcoPlus electrical requirements:

EP22 Series = EP22, EP22M, EP22G

EP26 Series = EP26, EP26M, EP26G

EP28 Series = EP28, EP28M, EP28G

EP33 Series = EP33, EP33M, EP33G

EP34 Series = EP34, EP34M, EP34G

EP36 Series = EP36, EP36M, EP36G

EP44 Series = EP44, EP44M, EP44G

EP46 Series = EP46, EP46M, EP46G

EP48 Series = EP48, EP48M, EP48G

EP55 Series = EP55, EP55M, EP55G

NOTE: For custom sizes, see installation specific wiring diagram included (where applicable)

All EcoPlus fixtures are 24V DC only.

EcoPlus fixtures must be mounted in dry locations only.

EcoPlus fixtures must be powered by provided UL, CSA and CE Compliant 24PS HLG Power System

### Sky Factory 24PS HLG Power System:

Input (Typ): 90-305V, 47 - 63 Hz

Output: 24V DC

Maximum Watts (useable) per power system: 600 Watts

Available sizes: 40W, 60W, 80W, 100W, 120W, 150W, 185W, 240W, 320W, 480W, 600W

Power System aluminum enclosure

Mounted on baseplate with junction box on input and output ends

For mounting dimensions and weights, see "EcoPlus and EcoSlim Drawings and Charts (24PS HLG)"

For power system wire sizes, see "EcoPlus and EcoSlim Drawings and Charts (24PS HLG)".

Power system must have 2" clearance for air flow. A 4-6" (10-15cm) clearance must be kept when the adjacent device is a heat source

Power system must be mounted in dry locations. Wall mount recommended.

Power system is specified for Sky Factory EcoSlim and EcoPlus fixtures only.

### For installations with multiple power systems, see

installation specific wiring diagram included (where applicable)

### For EcoPlus with 24PS HLG Power System wiring diagrams, see

"EcoPlus and EcoSlim Drawings and Charts (24PS HLG)"

### For installations with one or more custom sizes, see also

installation specific wiring diagram included (where applicable)

RF filter, if used, is not provided by Sky Factory. One filter per power system required.

## Revelation w/ EcoPlus electrical requirements (cont'd):

Sky Factory provided dimmer control (where specified):

Lutron Diva DVSTV 0 - 10V dimmer/switch (UL & CSA compliant)

Input: auto-ranging 120 - 277V AC

Lutron Diva DDTV 0 - 10V dimmer/switch and PP-DV power pack (UL & CSA compliant)

Input: auto-ranging 120 - 277V AC

Lutron Diva mounts in standard single-gang electrical box

White standard, other colors available on request

Jung 240-10 dimmer/switch and external relay where specified (CE compliant)

Input: 230 - 240V AC

Installs in appliance box to DIN 49073

For dimming requirements, see page 6.

For dimmer wiring diagrams, see dimmer control (and relay where specified) and wiring diagrams included

For other dimmer controls provided, see installation specific wiring diagram included (where applicable)

*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, EP28 Series, EP33 Series, EP34 Series, EP36 Series, EP44 Series, EP46 Series, EP48 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 Revelation fixtures to the power system

See also “EcoPlus and EcoSlim Drawings and Charts (24PS HLG)” and installation specific wiring diagram (where applicable)

EcoPlus Lighting System - EP24 to EP55 Series				
TSF Model No.	Light Box Dimensions and Weight Only		System Wattage (Max)	Input Current @ 24 Volts DC
	WxLxH	Weight		
EP24	22.8125 x 46.8125 x 5.85 (inches)	10.2 lb	47.1	1.96A
EP26	22.8125 x 70.8125 x 5.85 (inches)	16.7 lb	69.1	2.88A
EP28	22.8125 x 94.8125 x 5.85 (inches)	20.2 lb	91.9	3.83A
EP33	34.8125 x 34.8125 x 5.85 (inches)	12.6 lb	51.8	2.16A
EP34	34.8125 x 46.8125 x 5.85 (inches)	15.9 lb	69.1	2.88A
EP36	34.8125 x 70.8125 x 5.85 (inches)	22.4 lb	103.7	4.32A
EP44	46.8125 x 46.8125 x 5.85 (inches)	19.9 lb	92.2	3.84A
EP46	46.8125 x 70.8125 x 5.85 (inches)	27.8 lb	138	5.75A
EP48	46.8125 x 94.8125 x 5.85 (inches)	39.8 lb	184.1	7.67A
EP55	58.0625 x 58.0625 x 5.85 (inches)	28.9 lb	144	6.0A
EP24M	57 x 117 x 14.86 (cm)	4.5 kg	47.1	1.96A
EP26M	57 x 177 x 14.86 (cm)	7.4 kg	69.1	2.88A
EP28M	57 x 237 x 14.86 (cm)	8.9 kg	91.9	3.83A
EP33M	87 x 87 x 14.86 (cm)	5.6 kg	51.8	2.16A
EP34M	87 x 117 x 14.86 (cm)	7.2 kg	69.1	2.88A
EP36M	87 x 177 x 14.86 (cm)	9.9 kg	103.7	4.32A
EP44M	117 x 117 x 14.86 (cm)	8.8 kg	92.2	3.84A
EP46M	117 x 177 x 14.86 (cm)	12.3 kg	138	5.75A
EP48M	117 x 237 x 14.86 (cm)	15.8 kg	184.1	7.67A
EP55M	147 x 147 x 14.86 (cm)	12.8 kg	144	6.0A
EP24G	59.5 x 122 x 14.86 (cm)	4.8 kg	47.1	1.96A
EP26G	59.5 x 184.5 x 14.86 (cm)	7.9 kg	69.1	2.88A
EP28G	59.5 x 184.5 x 14.86 (cm)	9.5 kg	91.9	3.83A
EP33G	90.75 x 90.8 x 14.86 (cm)	5.9 kg	51.8	2.16A
EP34G	90.75 x 122 x 14.86 (cm)	7.5 kg	69.1	2.88A
EP36G	90.75 x 184.5 x 14.86 (cm)	10.6 kg	103.7	4.32A
EP44G	122 x 122 x 14.86 (cm)	9.4 kg	92.2	3.84A
EP46G	122 x 184.5 x 14.86 (cm)	13.1 kg	138	5.75A
EP48G	122 x 247 x 14.86 (cm)	16.8 kg	184.1	7.67A
EP55G	153.25 x 153.25 x 14.86 (cm)	13.7 kg	144	6,0A

NOTE: For custom sizes, see also installation specific wiring diagram included (where applicable)

## Step 1 continued



**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 is dedicated to a single power system and 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 (-).
- Larger fixtures may have two sets of leads. When making connections, leads are wired together red (+) to red (+) and black (-) to black (-) unless otherwise specified.
- Where fixtures have multiple junction boxes, see installation specific wiring diagram included.
- Fixture wire size 18 AWG stranded.

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

EcoPlus fixture red “+” to power system **Vo+**

EcoPlus fixture black “-” to power system **Vo-**

For power system V DC wire sizes, see “EcoPlus and EcoSlim Drawings and Charts (24PS HLG)”

HLG-480H-24B and HLG-600H-24B have two sets of output leads. Meanwell recommends loading no more than:

240 Watts on each set of cables for HLG-480H-24B

480 Watts on each set of cables for HLG-600H-24B

We recommend balancing the load as evenly as possible to minimize voltage drop and maximize placement options.

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

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

See Wire Sizing Chart in “EcoPlus and EcoSlim Drawings and Charts (24PS HLG)”.

## Step 2: Wiring the power system to source V AC

Run power to V AC side of the power system.

For power system V AC wire sizes, see “EcoPlus and EcoSlim Drawings and Charts (24PS HLG)”

Load to power system **ACL**

Neutral to power system **ACN**

Ground to power system  **(GREEN/YELLOW)**

Wire gauge must conform to local and national codes.

Install the power switch on the V AC input side of the power system.

## Step 3: Dimming requirements

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!

### Wiring a Sky Factory provided dimmer control:

To wire the dimmer control (and external relay where specified), refer to wiring diagram included with dimmer and relay and “EcoPlus and EcoSlim Drawings and Charts (24PS HLG)”, and installation specific wiring diagram included (where applicable.)

## Step 4: 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 System

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

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