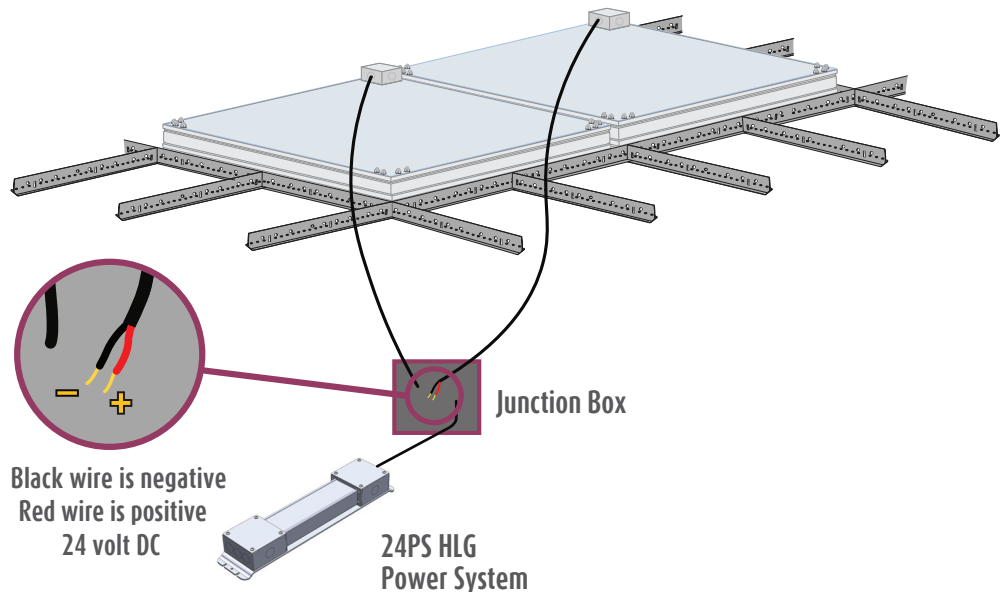




Revelation w/ EcoSlim Electrical Instructions (24PS HLG)



Installation Packet Includes:

Revelation w/ EcoSlim Electrical Instructions (24PS HLG)

- Number of ES26 Series Fixtures per Power System
- Number of ES33 Series Fixtures per Power System
- Number of ES34 Series Fixtures per Power System
- Number of ES36 Series Fixtures per Power System
- Number of ES44 Series Fixtures per Power System
- Custom SkyCeiling wiring diagram (where applicable)

EcoPlus and EcoSlim Drawings and Charts (24PS HLG)

- Wiring Diagrams EL001199, EL001200, EL001201, EL001202
- 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 The Sky Factory.

Revelation w/ EcoSlim electrical requirements:

ES26 Series = ES26, ES26M, ES26G

ES33 Series = ES33, ES33M, ES33G

ES34 Series = ES34, ES34M, ES34G

ES36 Series = ES36, ES36M, ES36G

ES44 Series = ES44, ES44M, ES44G

NOTE: For custom sizes, see Custom SkyCeiling wiring diagram (where applicable)

All EcoSlim fixtures are 24V DC only.

EcoSlim fixtures must be mounted in dry locations only.

EcoSlim 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, 600W

Up to three power systems per dimmer

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)"

AC input and dimmer wire sizes: 18 AWG

DC output wire sizes: 18 AWG on 40-80W, 14 AWG on 100-600W

Power system must have 2" clearance for air flow. Wall mount recommended.

Power system must be mounted in dry locations.

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

For number of fixtures per power system, see

Number of ESxx Series Fixtures per 24PS HLG Power System on pages 7-9

For EcoSlim 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

Custom SkyCeiling wiring diagram attached

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

Revelation w/ EcoSlim electrical requirements (cont'd):

Sky Factory provided dimmer control (where specified):

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

Input: auto-ranging 120 - 277V AC

Mounts in standard single-gang electrical box

White standard, other colors available on request

Lutron Lyneo preset 0 - 10V sliding dimmer/switch and external relay (CE compliant)

Input: 220 - 240V AC

Mounts in standard UK style single gang backbox. 35mm depth recommended.

For dimming requirements, see page 6.

For dimmer wiring diagrams, see dimmer control (and relay where specified) and
"EcoPlus and EcoSlim Drawings and Charts (24PS HLG)".

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,
EP22 Series, EP24 Series, EP26 Series, EP33 Series, EP34 Series, EP36 Series, EP44 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 Custom SkyCeiling wiring diagram (where applicable)

EcoSlim Lighting System - ES26 Series to ES44 Series				
TSF Model No.	Light Box Dimensions and Weight Only		System Wattage (Max)	Input Current @ 24 Volts DC
	WxLxH	Weight		
ES26	22.8125 x 34.8125 x 3.72 (inches)	28.3 lb	63.2	2.64A
ES33	34.8125 x 34.8125 x 3.72 (inches)	20.8 lb	46.8	1.95A
ES34	34.8125 x 46.8125 x 3.72 (inches)	27.1 lb	56.2	2.34A
ES36	34.8125 x 70.8125 x 3.72 (inches)	40 lb	72.5	3.02A
ES44	46.8125 x 46.8125 x 3.72 (inches)	35.3 lb	65.5	2.73A
ES26M	57 x 177 x 9.54 (cm)	12.9 kg	63.2	2.64A
ES33M	87 x 87 x 9.54 (cm)	9.5 kg	46.8	1.95A
ES34M	87 x 117 x 9.54 (cm)	12.3 kg	56.2	2.34A
ES36M	87 x 177 x 9.54 (cm)	18.1 kg	72.5	3.02A
ES44M	117 x 117 x 9.54 (cm)	16 kg	65.5	2.73A
ES26G	59.5 x 184.5 x 9.54 (cm)	12.9 kg	63.2	2.64A
ES33G	90.8 x 90.8 x 9.54 (cm)	9.5 kg	46.8	1.95A
ES34G	90.8 x 122 x 9.54 (cm)	12.3 kg	56.2	2.34A
ES36G	90.8 x 184.5 x 9.54 (cm)	18.1 kg	72.5	3.02A
ES44G	122 x 122 x 9.54 (cm)	16 kg	65.5	2.73A

NOTE: For custom sizes, see also Custom SkyCeiling wiring diagram



Notice: The LED fixtures are 24V DC ONLY.

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

Step 1 continued

Fixtures may be arranged in rows or clusters, depending on the 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 (+) to (+) and black (-) to (-).
- 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 (-):

EcoSlim fixture red "+" to power system **V+ (RED)**

EcoSlim fixture black "-" to power system **V- (BLACK)**

Power system V DC wire size 18 AWG on 40-80w, 14 AWG on 100-600w

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

Voltage drop will occur over long distances. For appropriate lengths and gauges, see Wire Sizing Chart in "EcoPlus and EcoSlim Drawings and Charts (24PS HLG)"

Wire gauge must conform to local and national codes.

Step 2: Wiring the power system to source V AC

Run power to V AC side of the power system. Power system V AC wire size 18 AWG.

Line to **ACL (BROWN)**

Neutral to **ACN (BLUE)**

Ground to  **(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 or power supply and will void the warranty!

Wiring a Sky Factory provided dimmer control:

To wire the 0-10V 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)".

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!

Number of ES26 Series Fixtures per 24PS HLG Power System

This table provides information for properly sizing a 24PS HLG power system given the number of fixtures in a given installation.

No. of Fixtures	Amperage [A]	Power [W]	24PS HLG Power System: 24V DC	Fixtures per Power System
1	2.64	63.4	80	1 per 80
2	5.28	126.7	150	2 per 150
3	7.92	190.1	240	3 per 240
4	10.56	253.4	320	4 per 320
5	13.2	316.8	80+320	1 per 80, 4 per 320
6	15.84	380.2	240+240	3 per 240
7	18.48	443.5	600	7 per 600
8	21.12	506.9	600	8 per 600
9	23.76	570.2	240+240+240	3 per 240
10	26.4	633.6	150+600	2 per 150, 8 per 600
Please contact the Sky Factory for additional or custom configurations				

Number of ES33 Series Fixtures per 24PS HLG Power System

This table provides information for properly sizing a 24PS HLG power system given the number of fixtures in a given installation.

No. of Fixtures	Amperage [A]	Power [W]	24PS HLG Power System: 24V DC	Fixtures per Power System
1	1.95	46.8	60	1 per 60
2	3.9	93.6	120	2 per 120
3	5.85	140.4	185	3 per 185
4	7.8	187.2	240	4 per 240
5	9.75	234.0	320	5 per 320
6	11.7	280.8	320	6 per 320
7	13.65	327.6	Contact Sky Factory	Contact Sky Factory
8	15.6	374.4	240+240	4 per 240
9	17.55	421.2	185+185+185	3 per 185
10	19.5	468.0	600	10 per 600
11	21.45	514.8	600	11 per 600
12	23.4	561.6	320+320	6 per 320
Please contact the Sky Factory for additional or custom configurations				

Number of ES34 Series Fixtures per 24PS HLG Power System

This table provides information for properly sizing a 24PS HLG power system given the number of fixtures in a given installation.

No. of Fixtures	Amperage [A]	Power [W]	24PS HLG Power System: 24V DC	Fixtures per Power System
1	2.34	56.2	60	1 per 60
2	4.68	112.3	120	2 per 120
3	7.02	168.5	185	3 per 185
4	9.36	224.6	240	4 per 240
5	11.7	280.8	320	5 per 320
6	14.04	337.0	185+185	3 per 185
7	16.38	393.1	Call Sky Factory	Call Sky Factory
8	18.72	449.3	600	8 per 600
9	21.06	505.4	600	9 per 600
10	23.4	561.6	320+320	5 per 320
Please contact the Sky Factory for additional or custom configurations				

Number of ES36 Series Fixtures per 24PS HLG Power System

This table provides information for properly sizing a 24PS HLG power system given the number of fixtures in a given installation.

No. of Fixtures	Amperage [A]	Power [W]	24PS HLG Power System: 24V DC	Fixtures per Power System
1	3.02	72.5	80	1 per 80
2	6.04	145.0	185	2 per 185
3	9.06	217.4	240	3 per 240
4	12.08	289.9	320	4 per 320
5	15.1	362.4	80+320	1 per 80, 4 per 320
6	18.12	434.9	240+240	3 per 240
7	21.14	507.4	600	7 per 600
8	24.16	579.8	320+320	4 per 320
9	27.18	652.3	240+240+240	3 per 240
10	30.2	724.8	240+240+320	3 per 240, 4 per 320
Please contact the Sky Factory for additional or custom configurations				

Number of ES44 Series Fixtures per 24PS HLG Power System

This table provides information for properly sizing a 24PS HLG power system
given the number of fixtures in a given installation.

No. of Fixtures	Amperage [A]	Power [W]	24PS HLG Power System: 24V DC	Fixtures per Power System
1	2.73	65.5	80	1 per 80
2	5.46	131.0	150	1 per 150
3	8.19	196.6	240	1 per 240
4	10.92	262.1	320	1 per 320
5	13.65	327.6	80+320	1 per 80, 1 per 320
6	16.38	393.1	240+240	2 per 240
7	19.11	458.6	240+320	3 per 240, 4 per 320
8	21.84	524.2	600	1 per 600
9	24.57	589.7	240+240+240	3 per 240
10	27.3	655.2	240+240+240	3 per 240
11	30.03	720.7	240+240+320	3 per 240, 4 per 320
12	32.76	786.2	320+320+320	4 per 320

Please contact the Sky Factory for additional or custom configurations