Classic w/ EcoSlim Electrical Instructions (HLG)

Installation Instruction includes:

Classic w/ EcoSlim Electrical Instructions (HLG)
Wiring Diagram EL001391, EL001428 & EL001429
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.
ES22 Series: ES22 (2’ x 2’), ES22M (60cm x 60cm), ES22G (62.5cm x 62.5cm)
ES24 Series: ES24 (2’ x 4’), ES24M (60cm x 120cm), ES24G (62.5cm x 125cm)
NOTE: For custom sizes, see installation specific wiring diagram included (where applicable)

All EcoSlim fixtures are 24V DC only.
EcoSlim fixtures must be powered only by provided UL Recognized, CE Compliant 24V DC power supply
Dry locations only.

For installations with multiple power supplies, see
installation specific wiring diagram included (where applicable)

For installations with one or more custom sizes, see
installation specific wiring diagram included (where applicable)

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

Sky Factory provided external dimmable power supply:
Input (Typ) 90-305V, 47 - 63 Hz
Output 24V DC
UL (U.S. and Canada) Recognized and CE Compliant
Surface mountable
**Classic 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

Jung 240-10 dimmer/switch and external relay where specified (CE compliant)
   Input: 230 - 240V AC

Helvar TK4 140 sliding dimmer/switch (CE compliant)
   Input: 220 - 240V AC

For dimming requirements, see page 6.

For dimmer wiring diagrams, see dimmer control (and relay where specified) and
   EL001180 or EL001391

*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,
when used with 24PS HLG Power System UL, CSA and CE Listed by Intertek Group plc
Step 1: Wiring the EcoSlim fixtures to the power supply

See supporting drawings on pages 7-8 and installation specific wiring diagram (where applicable)

<table>
<thead>
<tr>
<th>EcoSlim Lighting System - ES22 and ES24</th>
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<td>TSF Model No.</td>
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NOTE: For custom sizes, see also installation specific wiring diagram (where applicable)

[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 (−).
- Wire size 18 AWG stranded.
**Step 1 continued**

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

- EcoSlim fixture red “+” to power supply Vo+
- EcoSlim fixture black “−” to power supply Vo−
- For power supply V DC wire size, see EL001180

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

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 2% is recommended.

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**Step 2: Wiring the power supply to source V AC**

Run power to V AC side of the power supply. For power supply V AC wire size, see EL001180

- Load to power supply ACL
- Neutral to power supply ACN
- Ground to power supply (GREEN/YELLOW)

Wire gauge must conform to local and national codes.

Install the power switch on the V AC input side of the power supply.
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 dimmer control (and external relay where specified), refer to wiring diagram included with dimmer and relay and drawings attached

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 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!**