

EcoPlus and EcoSlim Drawings and Charts (24PS HLG)

Wiring Diagrams:

EL001199 - Without Dimmer

EL001454 - With Lutron Dimmers

EL001423 - With Jung Dimmers

EL001455 - Lutron Dimmers with Multiple Power Systems

EL001447 - Jung Dimmers with Multiple Power Systems

For:

EP22 Series = EP22, EP22M, EP22G

EP24 Series = EP24, EP24M, EP24G

EP26 Series = EP26, EP26M, EP26G

EP28 Series = EP28, EP28M, EP28G

EP34 Series = EP34, EP34M, EP34G

EP33 Series = EP33, EP33M, EP33G

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

and EPCST Series

ES22 Series = ES22, ES22M, ES22G

ES24 Series = ES24, ES24M, ES24G

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

ES46 Series = ES46, ES46M, ES46G

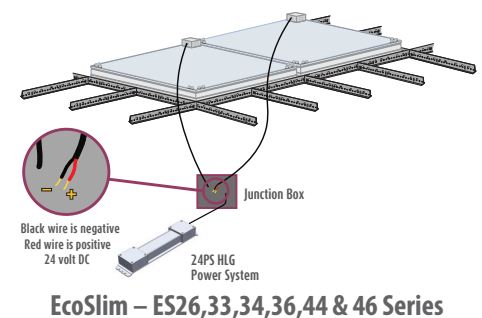
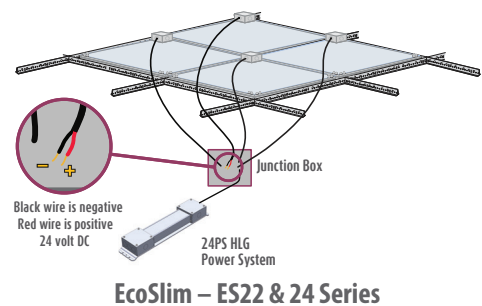
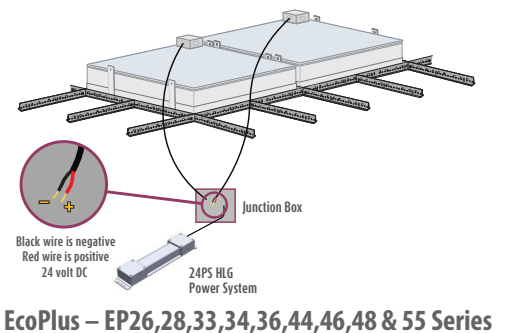
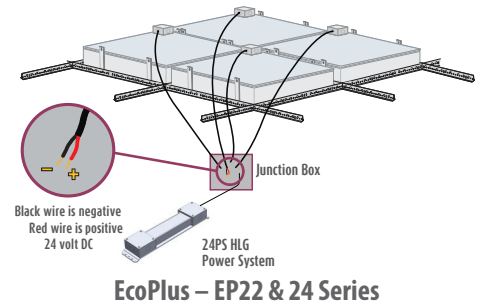
and EPCST Series

Sky Factory 24PS HLG Power System Dimensions and Weights

Wire Sizing Chart

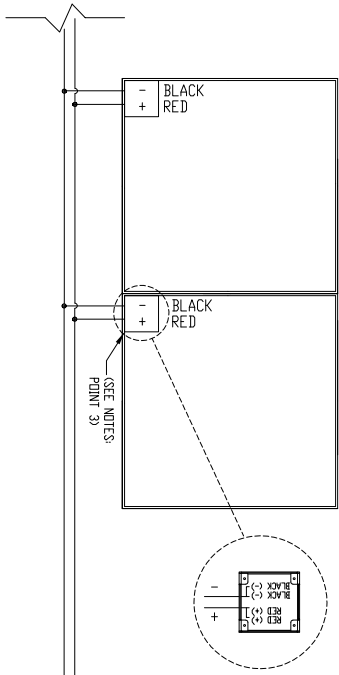
For technical support at any time during the installation, please call us **toll free at 866-759-3228**.

We want your installation to go as smoothly as possible. Thank you for choosing Sky Factory.

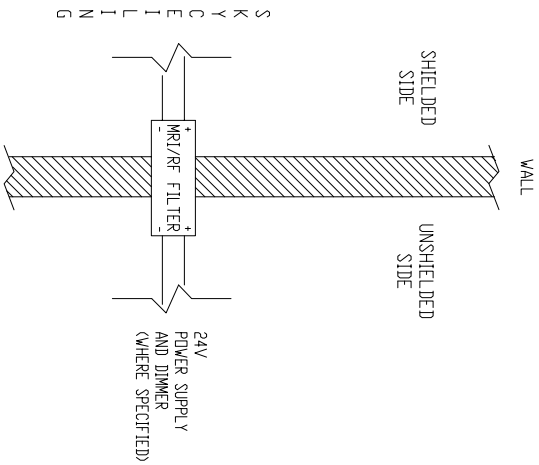
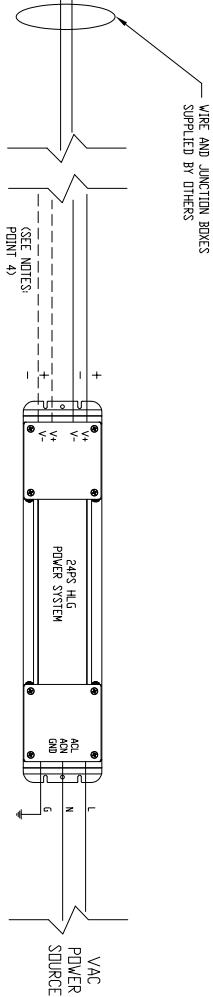


EP AND ES SERIES FIXTURES
WITH 24PS HLG POWER SYSTEM
NON-DIMMING OPTION

- ECOPULS
EP22 SERIES, EP24 SERIES,
EP26 SERIES, EP28 SERIES,
EP33 SERIES, EP34 SERIES,
EP36 SERIES, EP44 SERIES,
EP46 SERIES, EP48 SERIES,
EP55 SERIES, EPCST SERIES
- ECOSLIM
ES22 SERIES, ES24 SERIES,
ES26 SERIES, ES33 SERIES,
ES34 SERIES, ES36 SERIES,
ES44 SERIES, ES46 SERIES,
ESCT SERIES



- NOTES:
1. ALL FIXTURES 24V DC DMLY.
2. JUNCTION BOX ATTACHED TO EACH FIXTURE:
WIRE SIZE 18 AWG STRANDED
WIRE COLORS:
RED (+) (POSITIVE)
BLACK (-) (NEGATIVE)
3. EP28,36,44,46,48,55 AND ES36,44,46 HAVE TWO SETS OF LEADS.
ALWAYS CONNECT RED (+) TO RED (+) AND BLACK (-)
TO BLACK (-).
4. HLG-480H-24B AND HLG-600H-24B HAVE TWO SETS
OF OUTPUT LEADS. MEANWELL RECOMMENDS 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

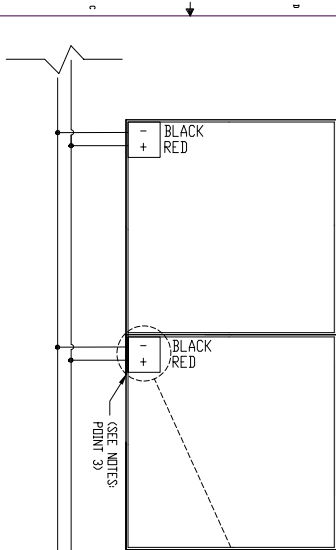


Silly Factory		DWG. NO.	E.001199
REVISIONS AND APPROVALS		TITLE	COMPL. OF ECOSLIM
DATE	BY	DATE	BY
07/20/2024	...	07/20/2024	...
PROJECT: 24PS HLG POWER SYSTEM		SCALE: 1/8"=1'-0"	SHEET: 3 OF 3

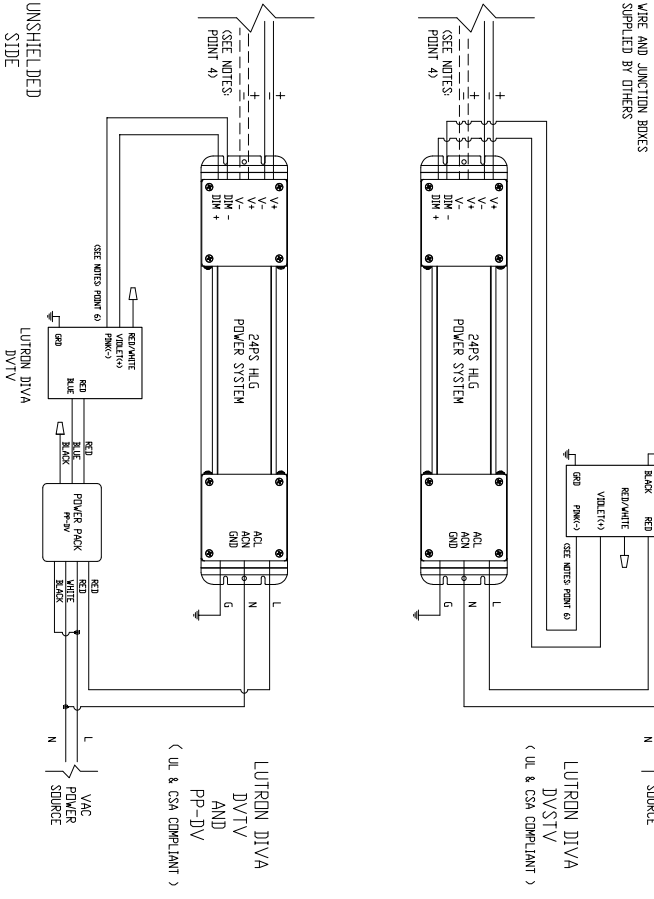
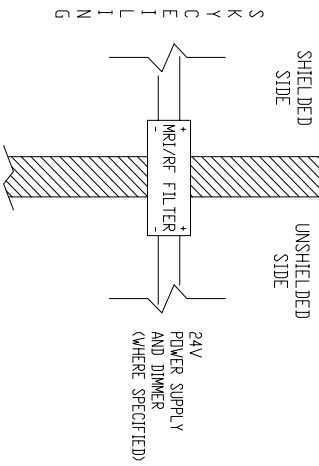
EP AND ES SERIES FIXTURES
WITH 24PS HLG POWER SYSTEM
DIMMING OPTION

ECODPLUS
EP22 SERIES, EP24 SERIES,
EP26 SERIES, EP28 SERIES,
EP33 SERIES, EP34 SERIES,
EP36 SERIES, EP44 SERIES,
EP46 SERIES, EP48 SERIES,
EP55 SERIES, EPCST SERIES

ECOSLIM
ES22 SERIES, ES24 SERIES,
ES26 SERIES, ES33 SERIES,
ES34 SERIES, ES36 SERIES,
ES44 SERIES, ES46 SERIES,
ESCT SERIES



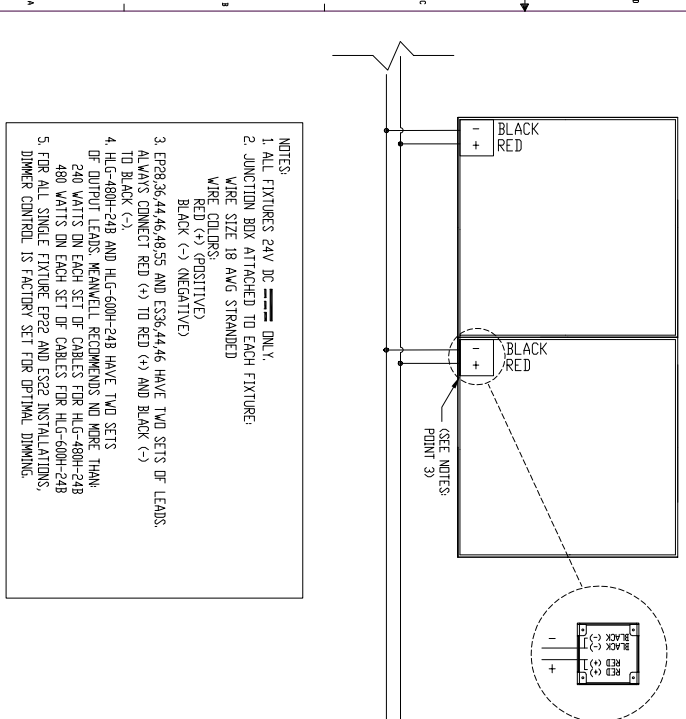
- NOTES:
1. ALL FIXTURES 24V DC ONLY.
2. JUNCTION BOX ATTACHED TO EACH FIXTURE.
WIRE SIZE IS AVG STRANDED
WIRE GAUGES (POSITIVE)
BLACK (-) (NEGATIVE)
3. EP28,36,44,46,48,55 AND ES36,44,46 HAVE TWO SETS OF LEADS
ALWAYS CONNECT RED (+) TO RED (+) AND BLACK (-)
TO BLACK (-)
4. HLG-480H-24B AND HLG-600H-24B HAVE TWO SETS
OF OUTPUT LEADS. MEANWELL RECOMMENDS 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
5. FOR ALL SINGLE FIXTURE EP22 AND ES22 INSTALLATIONS,
DIMMER CONTROL IS FACTORY SET FOR OPTIMAL DIMMING.
6. THIS WIRE/TERMINAL MAY BE GRAY ON OLDER PRODUCTS.



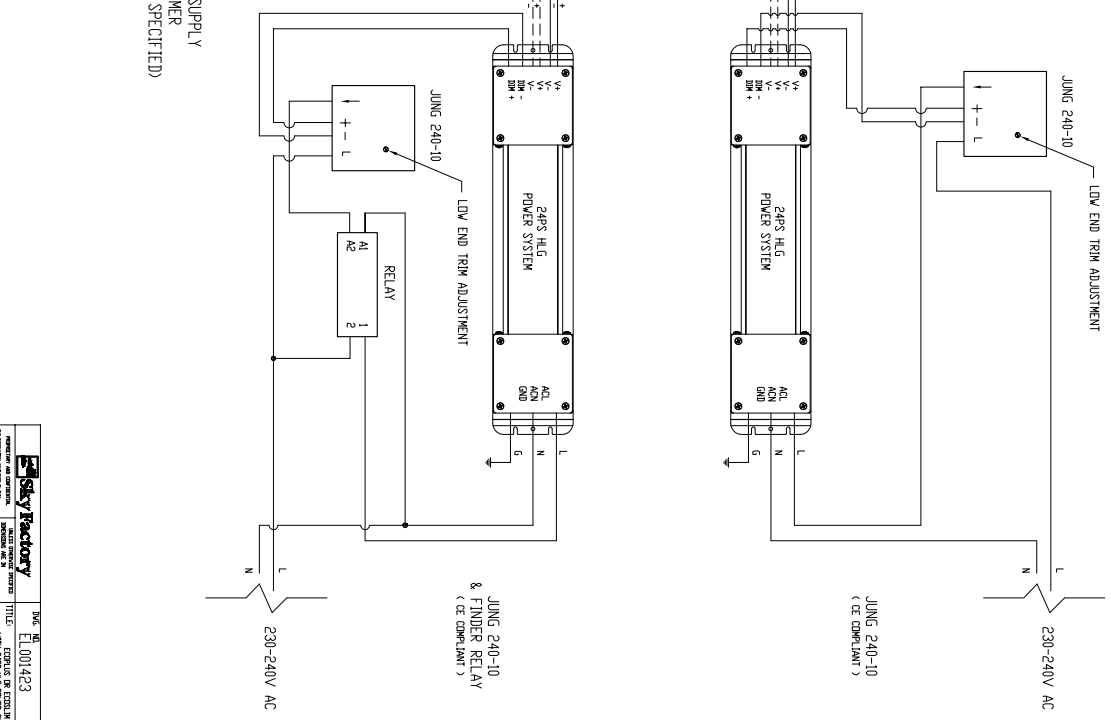
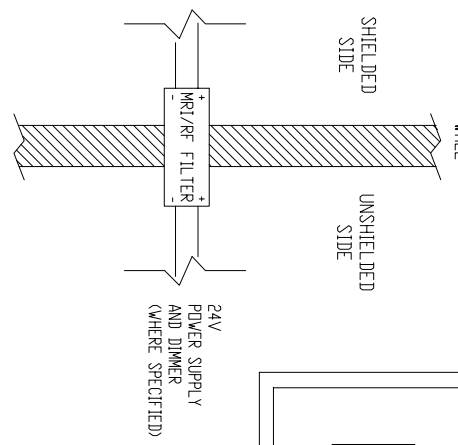
 Eaton <small>MANUFACTURED BY EATON</small> <small>1000 EAST 17TH AVENUE</small> <small>COLO SPRING, CO 80905</small> <small>TEL: 303.440.2000</small> <small>WWW.EATON.COM</small> <small>© 2014 EATON CORPORATION</small>	DOC. NO. ELO01454 TITLE CONTROL OF ECODEM WITH DIMMING OPTION SYSTEM DRAWN BY SEA DATE 07/29/2014 CHECKED BY STW DATE 07/29/2014 DESIGNED BY STW DATE 07/29/2014
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EP AND ES SERIES FIXTURES WITH 24PS HLG POWER SYSTEM DIMMING OPTION

- ECPLUS**
EP22 SERIES, EP24 SERIES,
EP26 SERIES, EP28 SERIES,
EP33 SERIES, EP34 SERIES,
EP36 SERIES, EP44 SERIES,
EP46 SERIES, EP48 SERIES,
EP55 SERIES, EPCST SERIES
- ECOSLIM**
ES22 SERIES, ES24 SERIES,
ES26 SERIES, ES33 SERIES,
ES34 SERIES, ES36 SERIES,
ES44 SERIES, ES46 SERIES,
ES48 SERIES, ESCST SERIES

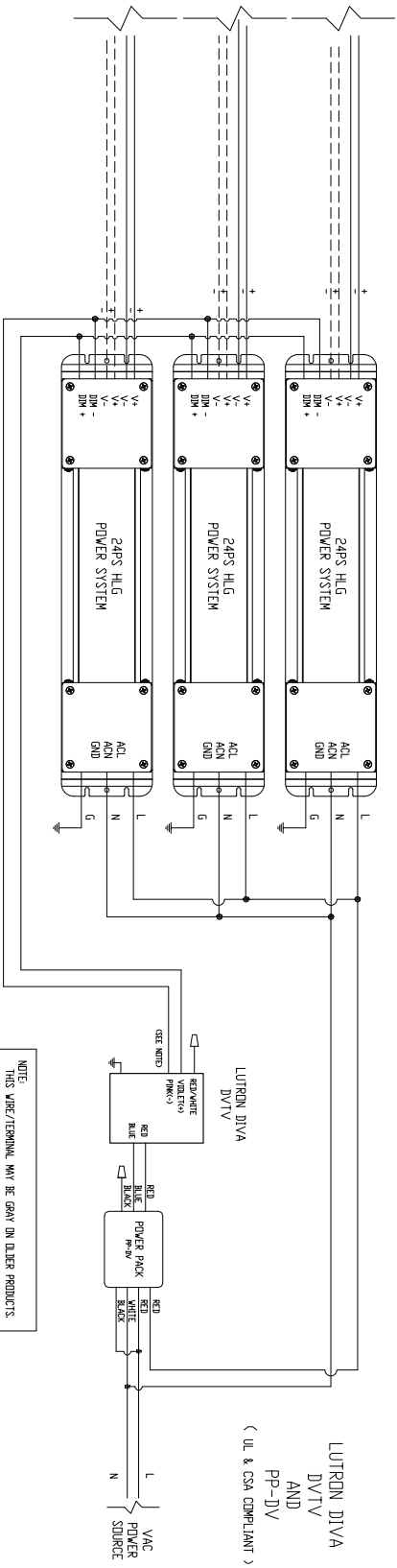
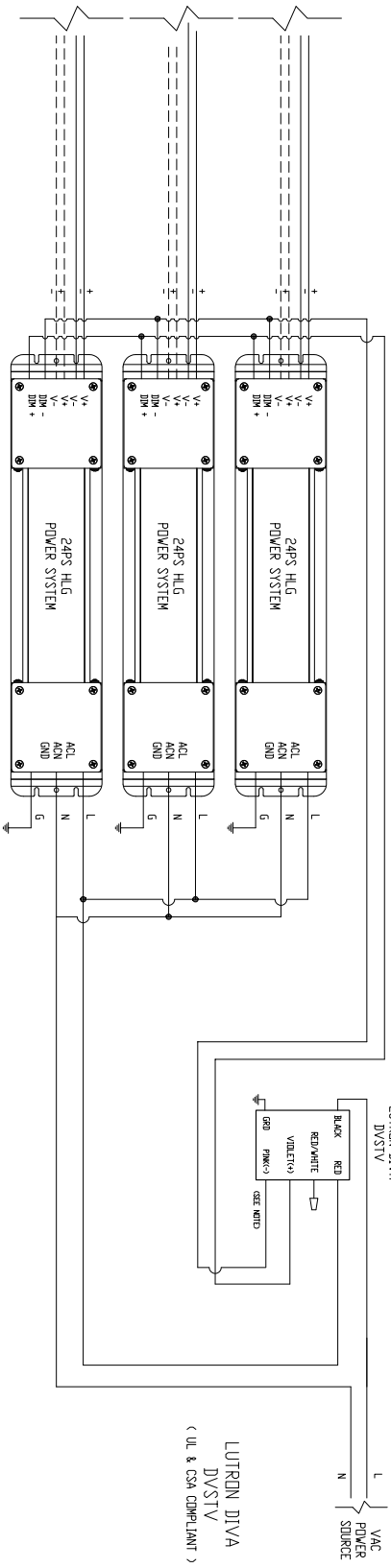


- NOTES:**
1. ALL FIXTURES 24V DC ONLY.
2. JUNCTION BOX ATTACHED TO EACH FIXTURE:
WIRE SIZE: 18 AWG STRANDED
WIRE COLORS:
RED (+) (POSITIVE)
BLACK (-) (NEGATIVE)
3. EP28,36,44,46,48,55 AND ES36,44,46
ALWAYS CONNECT RED (+) TO RED (+) AND BLACK (-)
TO BLACK (-).
4. HLG-480H-248 AND HLG-600H-248 HAVE TWO SETS
OF OUTPUT LEADS. MEANWILE, RECOMMENDS NO MORE THAN
240 WATTS ON EACH SET OF CABLES FOR HLG-480H-248
480 WATTS ON EACH SET OF CABLES FOR HLG-600H-248
5. FOR ALL SINGLE FIXTURE EP22 AND ES22 INSTALLATIONS,
DIMMER CONTROL IS FACTORY SET FOR OPTIMAL DIMMING.



Sky Factory	DATE: 01/23	REV: G
PROJECT: EP AND ES SERIES WITH 24PS HLG POWER SYSTEM	TITLE: WIRING DIMMING OPTION	SCALE: 1/8"=1'-0"
DESIGNED BY: BIA	DRAWN BY: BIA	DATE: 07/25/2024
CHECKED BY: BIA	SCALE: 1/8"=1'-0"	PROJECT NO: 1747107.1

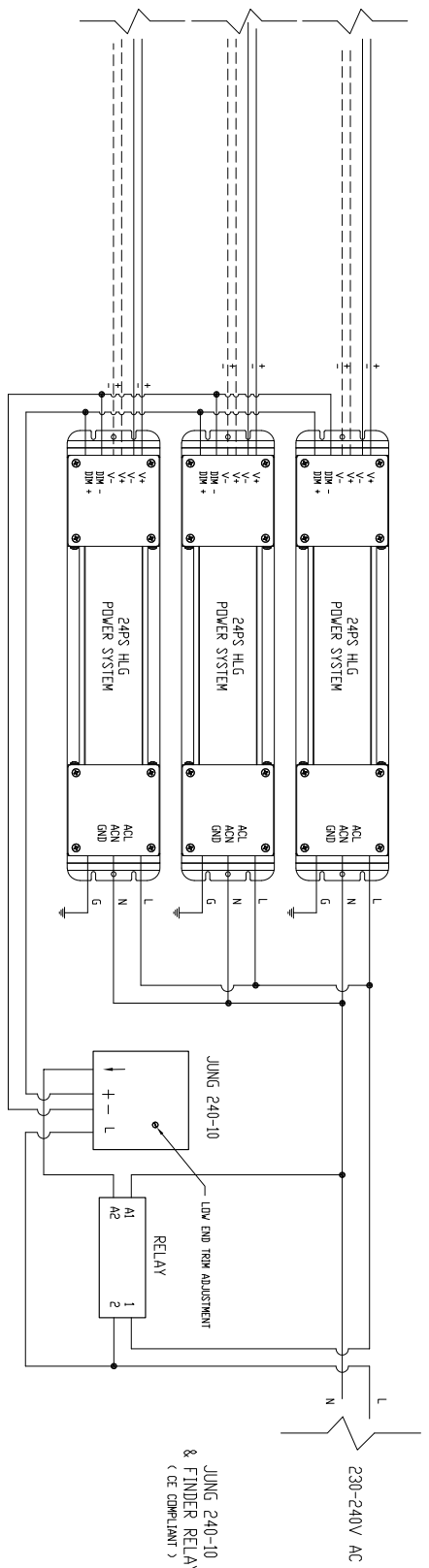
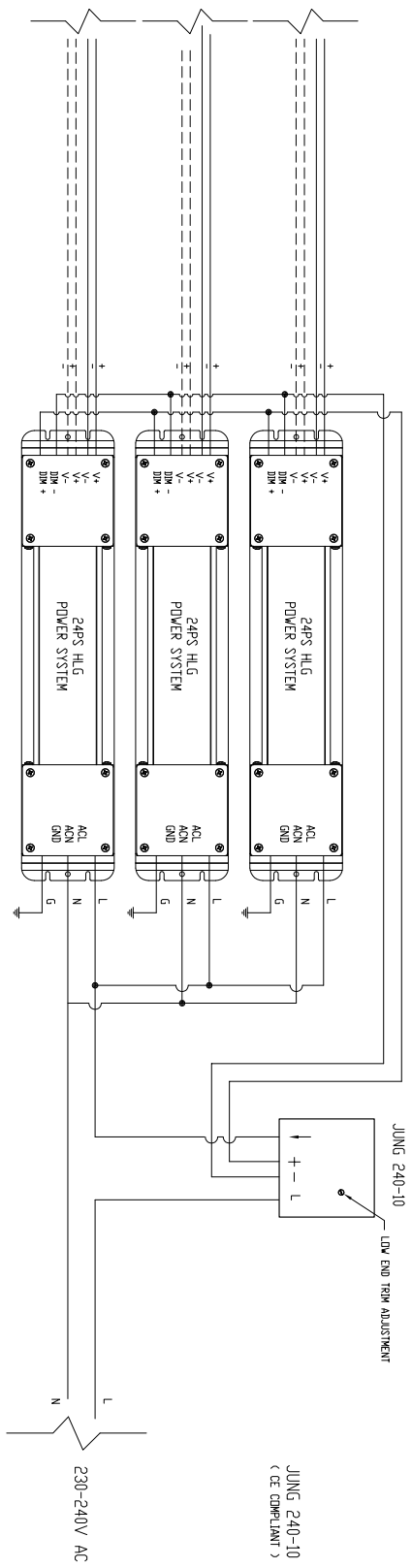
MULTIPLE 24PS HLG POWER SYSTEMS
WITH DVSTV AND DVTV + PP-DV
DIMMING OPTION



NOTE:
THIS WIRE/TERMINAL MAY BE DIFF. ON OTHER PRODUCTS.

Sky Factory	
REG. U.S. PAT. & TM. OFF.	REG. U.S. PAT. & TM. OFF.
10000 W. 100th Ave. Suite 1000	10000 W. 100th Ave. Suite 1000
Denver, CO 80261	Denver, CO 80261
TEL: 303.440.8800	TEL: 303.440.8800
FAX: 303.440.8801	FAX: 303.440.8801
WWW.SKYFACTORY.COM	WWW.SKYFACTORY.COM
DATE: 03/28/2023	DATE: 03/28/2023
REV: 01	REV: 01
SHEET 1 OF 1	SHEET 1 OF 1

MULTIPLE 24PS HLG POWER SYSTEMS
WITH JUNG 240-10 AND JUNG 240-10 + FINDER RELAY
DIMMING OPTION



		230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >
230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >	230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >	230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >

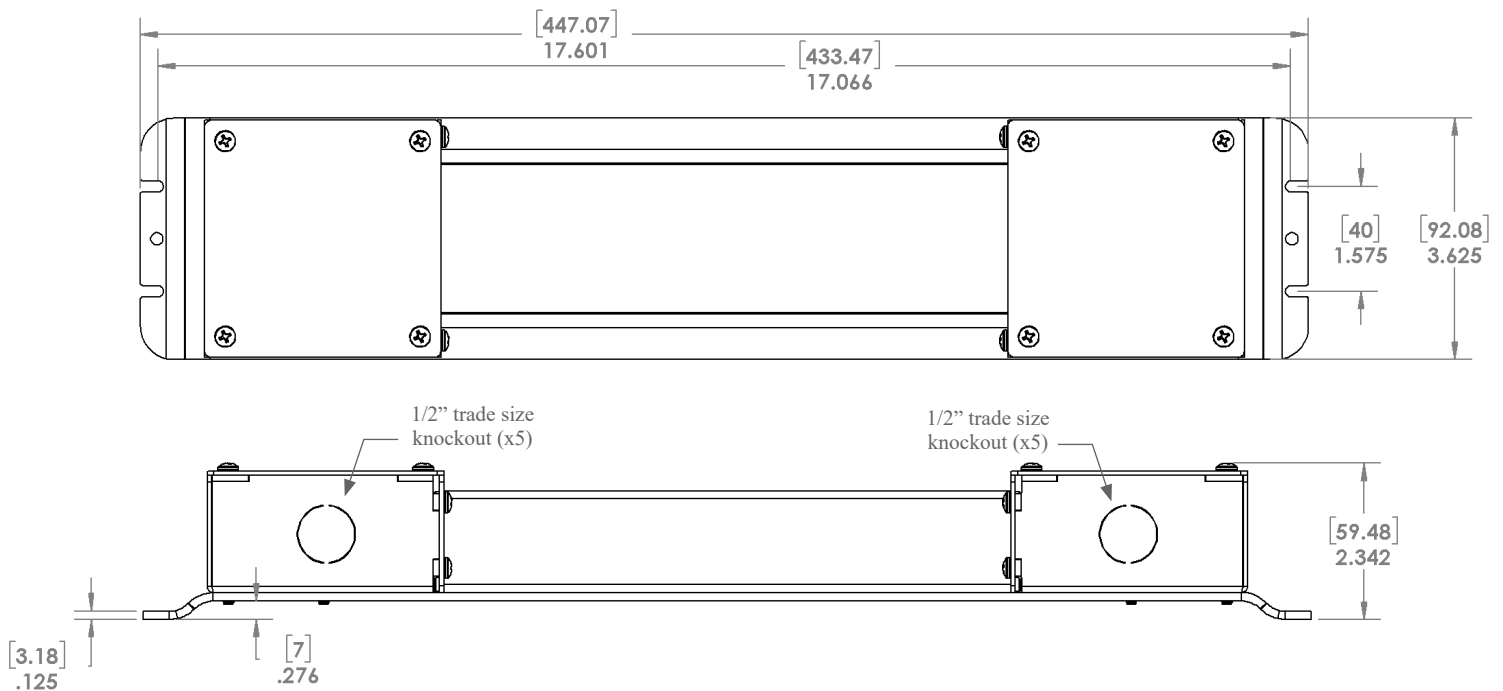
230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >	230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >	230-240V AC JUNG 240-10 & FINDER RELAY < CE COMPLIANT >
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Sky Factory 24PS HLG Power System Dimensions and Weights:

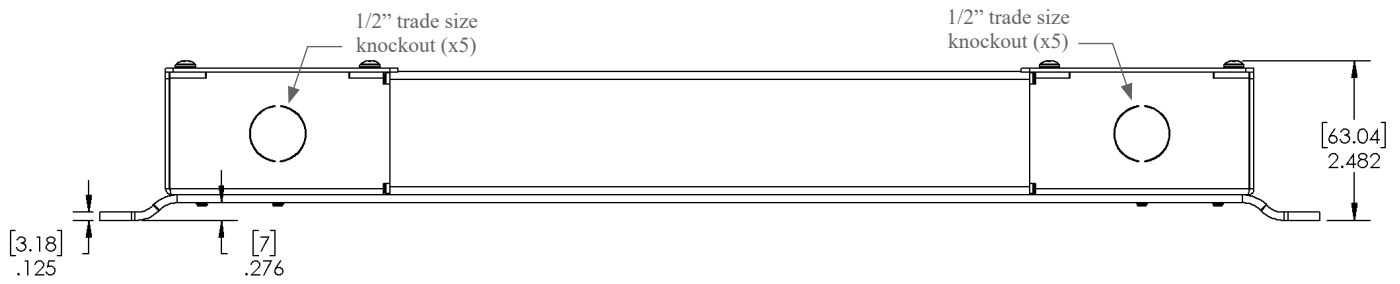
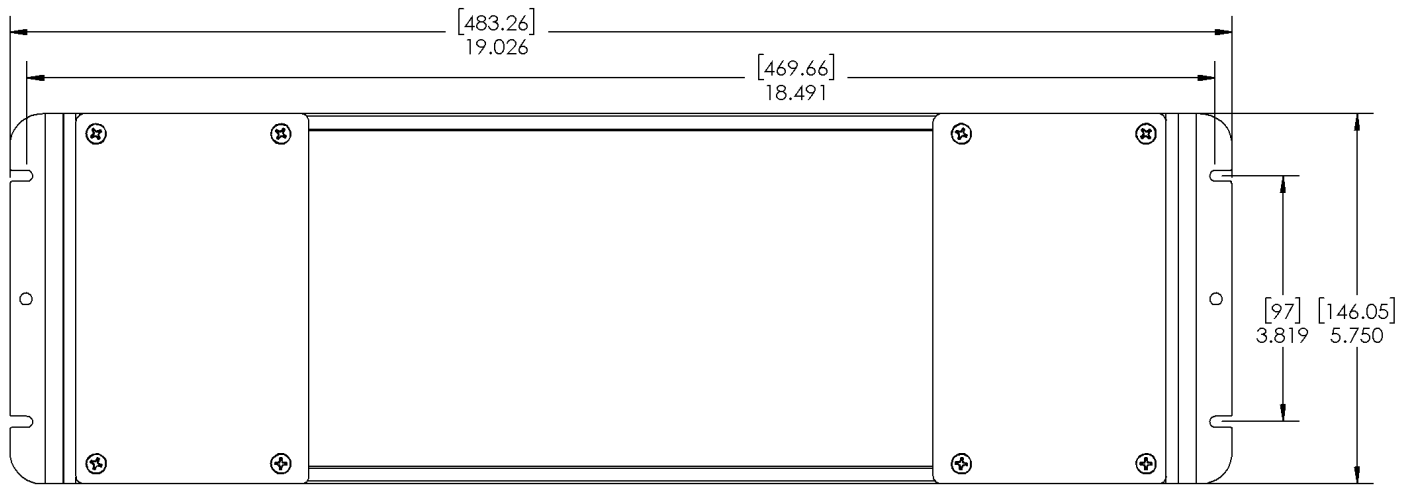
DIMENSIONS AND WEIGHTS				
	LENGTH	WIDTH	HEIGHT	WEIGHT
40 WATT 60 WATT	18 IN	3.7 IN	2.4 IN	3 LBS
	45.8 CM	9.4 CM	6.1 CM	1.4 KG
80 WATT 100 WATT 120 WATT 150 WATT 185 WATT 240 WATT	18 IN	3.7 IN	2.4 IN	4 LBS
	45.8 CM	9.4 CM	6.1 CM	1.8 KG
320 WATT	18 IN	3.7 IN	2.4 IN	6 LBS
	45.8 CM	9.4 CM	6.1 CM	2.7 KG
480 WATT	19.1 IN	5.8 IN	2.5 IN	8 LBS
	48.5 CM	14.8 CM	6.4 CM	3.6KG
600 WATT	19.1 IN	5.8 IN	2.5 IN	10 LBS
	48.5 CM	14.8 CM	6.4 CM	4.6 KG

- AC input wire sizes: 17 AWG on 40-600W
- DC output wire sizes: 17 AWG on 40-240W,480W; 14 AWG on 320W,600W
- Dimmer wire sizes: 20 AWG on 40-480W; 18 AWG on 600W

Mounting dimensions: 40w, 60w, 80w, 100w, 120w, 150w, 185w, 240w, 320w 24PS HLG Power Systems



Mounting dimensions: 480W, 600W 24PS HLG Power System



Wire Sizing Chart:

Wire Sizing Chart is calculated for a recommended voltage drop of no more than 3%.

For amps per luminaire at 24V DC, see below. For custom sizes, see custom wiring diagram included (where applicable).

NOTE: Some larger installations have multiple branches. See custom wiring diagram (where applicable).

NOTE: Two largest power systems have two sets of leads. See "EcoPlus and EcoSlim Drawings and Charts (24PS HLG)", pgs 2-4.

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

Length (ft)	5	10	15	20	25	30	35	40	45	50
Amperage (24V DC)										
1	18	18	18	18	18	18	18	18	18	18
2	18	18	18	18	18	16	16	16	16	14
3	18	18	18	16	16	16	14	14	14	12
4	18	18	18	16	14	14	14	12	12	12
5	18	18	16	14	14	12	12	12	12	10
6	18	16	16	14	12	12	12	10	10	10
7	18	16	14	14	12	12	10	10	10	10
8	18	16	14	12	12	10	10	10	10	-
9	18	16	14	12	12	10	10	10	-	-
10	16	14	12	12	10	10	10	-	-	-
11	16	14	12	12	10	10	-	-	-	-
12	16	14	12	10	10	-	-	-	-	-
13	16	14	12	10	10	-	-	-	-	-
14	16	14	12	10	10	-	-	-	-	-
15	16	14	12	10	-	-	-	-	-	-
16	16	12	10	10	-	-	-	-	-	-
17	16	12	10	10	-	-	-	-	-	-
18	16	12	10	10	-	-	-	-	-	-
19	16	12	10	-	-	-	-	-	-	-
20	14	12	10	-	-	-	-	-	-	-

Amps per Luminaire at 24V DC

Classic	Amps	Revelation	Amps	Revelation	Amps
EP22-CLA Series	0.96	EP24-RVN Series	1.96	ES24-RVN Series	1.53
EP24-CLA Series	1.96	EP26-RVN Series	2.88	ES26-RVN Series	2.38
EP33-CLA Series	2.16	EP28-RVN Series	3.83	ES33-RVN Series	1.78
		EP33-RVN Series	2.16	ES34-RVN Series	2.19
Classic	Amps	EP34-RVN Series	2.88	ES36-RVN Series	2.73
ES22-CLA Series	1.02	EP36-RVN Series	4.32	ES44-RVN Series	2.46
ES24-CLA Series	1.53	EP44-RVN Series	3.84	ES46-RVN Series	3.74
		EP46-RVN Series	5.75		
		EP48-RVN Series	7.67		
		EP55-RVN Series	6.0		