

LUMIGEAR

LED Drivers Guide

LUMInous ideas,
GEARed for brilliance

2025

ABOUT LUMIGEAR

LUMIGEAR is a globally integrated provider of advanced LED lighting technologies, dedicated to delivering high-performance, application-specific solutions across the professional lighting industry. With decades of expertise, LUMIGEAR seamlessly combines engineering excellence, global manufacturing, and customer-focused innovation to meet the complex demands of a dynamic market.

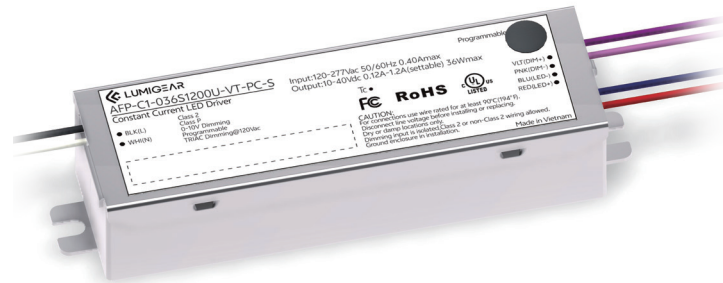
Our solutions are applied across a broad range of sectors, including but not limited to:

- Architectural Lighting
- Smart Lighting Systems
- Residential & Hospitality Lighting
- Commercial & Office Space Illumination
- ODM-Based Custom Lighting Solutions

LUMIGEAR's commitment to excellence has earned widespread recognition from architects, lighting designers, electrical planners, installers, and wholesalers, who rely on our products for both indoor and outdoor applications.

At LUMIGEAR, we don't just develop lighting components, we deliver the technology, reliability, and global support that power world-class illumination.

Nomenclature



Product Family

AF= Architectural FlexFit
CV=Constant Voltage
ES=Essence
PD=Premium

Input Voltage

U=UNA120-277V
M=MUA120-347V
H=HUA347V higher

The wire outlet methods of the product

S= side feed B= bottom feed M= "M" means outlet on both mounting and side surface.

Internal Distinguishing Code

The first letter ranges from A to Z, with later letters denoting enhanced functionality; The second digit ranges from 1 to 99, representing the version number.

Output Channel

S=Single D=Double
T=Three F=Four
V=Five

Auxiliary Source

Nothing= Without Aux
AUX = With Aux

Number of DIP switches for power adjustment

T=3 DIP switches F=4 DIP switches
V=5 DIP switches

AF P C1 036 S 1200 U VT AUX PC T F S

(CC) mode, it is a current range.

1200=1200mA 2000=2000mA
In constant voltage

(CV) mode, it refers to the output voltage:

012=12V 048=48V

Power Range

036=36W
120=120W

Number of color temperature setting DIP switches

T=3 DIP switches
F=4 DIP switches
V=5 DIP switches

Programming method

P=PC N=NFC
D=DIP switch F=Fixed current

Product Appearance

P=Pocket
S=Slim
R=Round
J=Junction Box
W=Water Proof
L=Linear
C=Compact

Dimming Control

BLE=BLE/NLC
LT=LiteTrace
CA=CASAMBI
V=0-10V
T=TRAIC
DT6/DT8/D4i=DALI
DMX=DMX
KNX=KNX
ND=No-Dimming
E=ELV
P=PWM

Product Appearance

P=Pocket

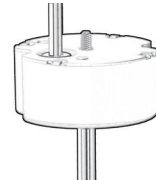


72×40×25 mm 2.8×1.6×1.0 in.



112×31×23 mm 4.4×1.2×0.9 in.
98×31×23 mm 3.8×1.2×0.9 in.

R=Round



D58×H27 mm D2.2×H1.0 in.

S=Slim



86×27×19 mm 3.3×1.0×0.7 in.

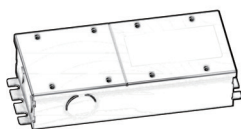


176×26×19.5 mm 6.9×1.0×0.7 in.
136×26×19.5 mm 5.3×1.0×0.7 in.

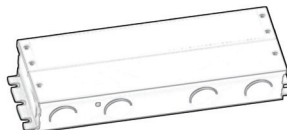


200×18×16 mm 7.8 ×0.7×0.6 in.
265×18×16 mm 10.4×0.7×0.6 in.
360×18×16 mm 14.1×0.7×0.6 in.

J=Junction Box



151×66 ×36 mm
217×69 ×35 mm
233×115×40 mm



5.9×2.6×1.4 in.
8.5×2.7×1.3 in.
9.2×4.5×1.5 in.

W=Water Proof



127×33×29 mm 8.5×1.3×1.1 in.

L=Linear

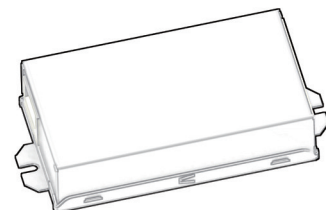


242×44×30 mm
280×30×21 mm
380×30×25 mm



9.5 ×1.7×1.0 in.
11.0×1.2×0.8 in.
15.0×1.2×1.0 in.

C=Compact



127×60×27 mm 5.0×2.3×1.1 in.

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AFP-Pocket Drivers



Extreme Compact
Form Factor

5_{in}1

Five-in-one Dimming,
0-10V, 1-10V, MLV, ELV, TRIAC



High Power Density
8.4 W/in³



True 1% Dimming
Over Full Output Current Range



Full Programmable
Features



Dim To Off



AFP-C1/D1

TRIAC + 0-10V

5in1

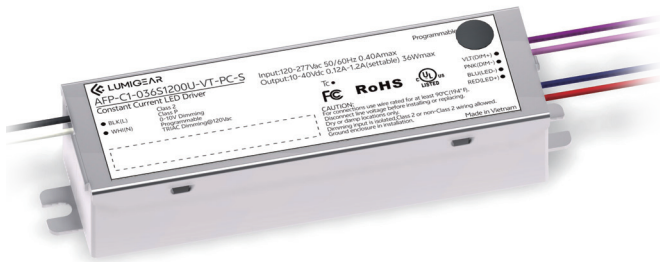


0/1-10V



CLASS P

CLASS 2



-S(side feed) series



-B(bottom feed) series

Features & Benefits

- Extreme compact form factor
- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- True 1% dimming over full output current range
- Wide current range coverage: 70-1200 mA
- High power density design, white aluminum sheet metal case
- Complies with phase cut dimming and isolated 0-10V dimming, dimming down to true 1%
- Suitable for indoor use
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current (1mA step)
- Dim to off, min dimming level
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV
- Dimming curve: log/linear/customized
- OTP mode: foldback mode, linear decrease mode
- Dimming fade time
- Overload protection

Optional Functions

- Side feed and bottom feed

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
AFP-C1-012S0400U-VT-PC-S AFP-C1-012S0400U-VT-PC-B	120-277VAC	12W	100-400mA	10-40VDC	TRIAC+0-10V	1-100%	84%	112*31*23 mm/98*31*23 mm 4.4*1.2*0.9 in./3.8*1.2*0.9 in.
AFP-C1-020S0700U-VT-PC-S AFP-C1-020S0700U-VT-PC-B	120-277VAC	20W	70-700mA	10-40VDC	TRIAC+0-10V	1-100%	86%	112*31*23 mm/98*31*23 mm 4.4*1.2*0.9 in./3.8*1.2*0.9 in.
AFP-C1-036S1200U-VT-PC-S AFP-C1-036S1200U-VT-PC-B	120-277VAC	36W	120-1200mA	10-40VDC	TRIAC+0-10V	1-100%	86%	112*31*23 mm/98*31*23 mm 4.4*1.2*0.9 in./3.8*1.2*0.9 in.
AFP-D1-012S0400U-VT-PC-S AFP-D1-012S0400U-VT-PC-B	120-277VAC	12W	100-400mA	10-40VDC	TRIAC+0-10V	1-100%	81%	86*27.5*19.5 mm 3.3*1.0*0.7 in.

AFP-B1

TRIAC + 0-10V

5in1

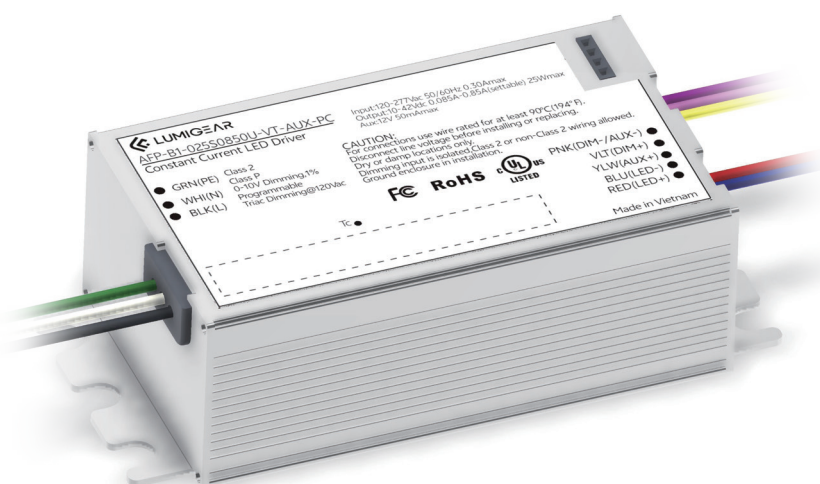


0/1-10V



CLASS P

CLASS 2



Features & Benefits

- Extreme compact form factor
- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- True 1% dimming over full output current range
- Wide current range coverage: 42-1200 mA
- High power density design, white aluminum sheet metal case
- Complies with phase cut dimming and isolated 0-10V dimming, dimming down to true 1%
- Suitable for indoor use
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current (1mA step)
- Dim to off, min dimming level
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV
- Dimming curve: log/linear/square dimming curves
- OTP mode: foldback mode, linear decrease mode
- Dimming fade time
- Overload protection

Optional Functions

- Auxiliary power 12V/50mA

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
AFP-B1-012S0420U-VT-AUX-PC	120-277VAC	12W	42-420mA	10-42VDC	TRIAC+0-10V	1-100%	85%	72.5*40.5*25.4 mm 2.8*1.6*1.0 in.
AFP-B1-025S0850U-VT-AUX-PC	120-277VAC	25W	85-850mA	10-42VDC	TRIAC+0-10V	1-100%	87%	72.5*40.5*25.4 mm 2.8*1.6*1.0 in.
AFP-B1-040S1200U-VT-AUX-PC	120-277VAC	40W	120-1200mA	10-42VDC	TRIAC+0-10V	1-100%	88%	72.5*40.5*25.4 mm 2.8*1.6*1.0 in.

AFP-A1

TRIAC or 0-10V

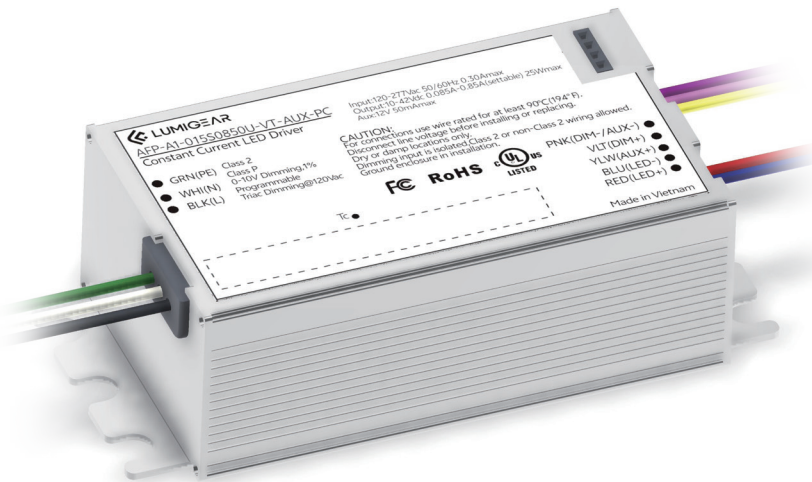


0/1-10V



CLASS P

CLASS 2



Features & Benefits

- Extreme compact form factor
- True 1% dimming over full output current range
- High power density design, white aluminum sheet metal case
- Complies with phase cut dimming, isolated 0-10V dimming, dimming down to true 1%
- Suitable for indoor use
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current (1mA step)
- Dim to off, min dimming level
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV
- Dimming curve: log/linear/square dimming curves
- OTP mode: foldback mode, linear decrease mode
- Dimming fade time
- Overload protection

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
AFP-A1-015S0450U-T-PC	120-277VAC 120VAC	15W	150-450mA	30-42VDC	TRIAC	1-100%	86%	65.2*32.5*24.5 mm 2.5*1.3*1.0 in.
AFP-A1-030S0900U-T-PC	120-277VAC 120VAC	30W	300-900mA	30-42VDC	TRIAC	1-100%	88%	65.2*32.5*24.5 mm 2.5*1.3*1.0 in.
AFP-A1-015S0450U-V-PC	120-277VAC	15W	100-450mA	30-42VDC	0-10V	1-100%	86%	65.2*32.5*24.5 mm 2.5*1.3*1.0 in.
AFP-A1-030S0900U-V-PC	120-277VAC	30W	200-900mA	30-42VDC	0-10V	1-100%	88%	65.2*32.5*24.5 mm 2.5*1.3*1.0 in.

AFS- Pencil Drivers



0-10V True 1% Dimming
Over Full Output Current Range



DALI 2 DT6 DT8



Ultra-wide Window
Working: 8-55 VDC



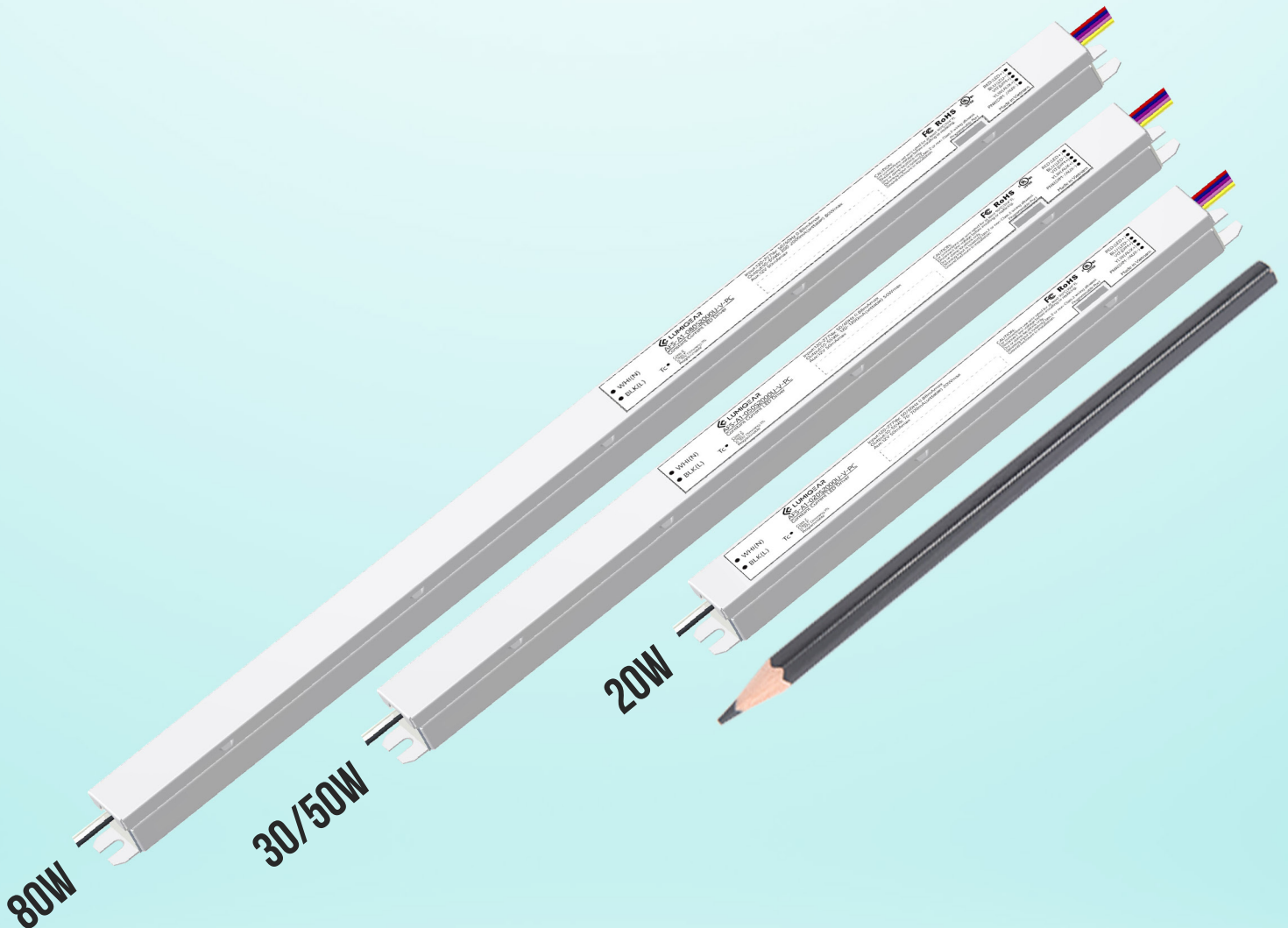
0.7 Inches Wide
0.6 Inches High



Wide Power Range
Coverage: 20-80W

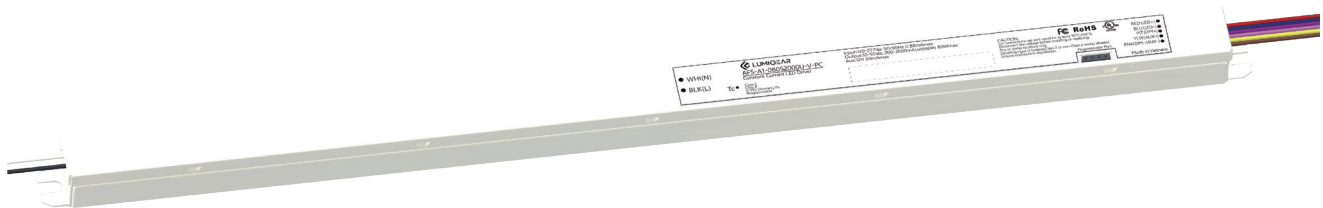
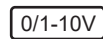


Full Programmable
Features



AFS-B1/A1

DALI-2 or 0-10V



Features & Benefits

- 0.7 inches wide×0.6 inches high
- True 1% dimming over full output current range
- Wide current range coverage: 70-2000 mA
- Wide power range coverage: 20-80 W
- Linear form factor, metal sheet case(white), side feed
- Isolated 0-10V dimming interface
- Low standby power: <0.5W@120VAC
- Suitable for indoor use
- Flicker-free, excellent camera compatibility, spec-grade smoothness
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current, dim to off, min dimming level
- OTP point of driver, luminous decay compensation,
- End-of-life indicator, fade in time, over load protection point
- Dimming curve: log/linear/square dimming curves

Optional Functions

- Aux power: 12V/50mA

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
AFS-B1-020S0700U-DT6-PC AFS-A1-020S0700U-V-PC	120-277VAC	20W	70-700mA	8-55VDC	DT6/0-10V	1-100%	87%	200*18.2*16 mm 7.8*0.7*0.6 in.
AFS-B1-030S0850U-DT6-PC AFS-A1-030S0850U-V-PC	120-277VAC	30W	85-850mA	8-55VDC	DT6/0-10V	1-100%	88%	265*18.2*16 mm 10.4*0.7*0.6 in.
AFS-B1-050S1200U-DT6-PC AFS-A1-050S1200U-V-PC	120-277VAC	50W	120-1200mA	8-55VDC	DT6/0-10V	1-100%	89%	265*18.2*16 mm 10.4*0.7*0.6 in.
AFS-B1-080S2000U-DT6-PC AFS-A1-080S2000U-V-PC	120-277VAC	80W	200-2000mA	8-55VDC	DT6/0-10V	1-100%	90%	360*18.2*16 mm 14.1*0.7*0.6 in.
AFS-B1-045D1200U-DT8-PC AFS-A1-045D1200U-V-PC	120-277VAC	45W	120-1200mA	8-55VDC	DT8/0-10V	1-100%	89%	265*18.2*16 mm 10.4*0.7*0.6 in.

AFR-Cookie Drivers



Extreme Compact
Form Factor

5_{in}1

Five-in-one Dimming,
0-10V, 1-10V, MLV, ELV, TRIAC



High Power Density
6.93 W/in³



True 1% Dimming
Over Full Output Current Range



Full Programmable
Features



Dim To Off



AFR-A1

TRIAC + 0-10V

5in1

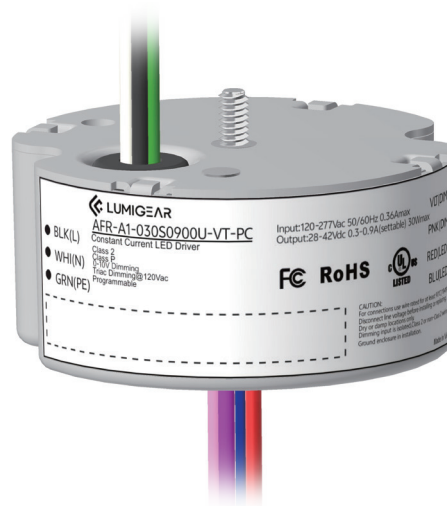


0/1-10V



CLASS P

CLASS 2



Features & Benefits

- Extreme compact form factor
- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- True 1% dimming over full output current range
- High power density design, white aluminum sheet metal case
- Complies with phase cut dimming and isolated 0-10V dimming, dim down to true 1%
- Suitable for indoor use
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

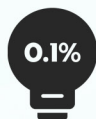
- Output current (1mA step)
- Dim to off, min dimming level
- Programmable conduction angles with turn-on & turn-off for TRIAC & ELV
- Dimming curve: log/linear/customized
- OTP mode: foldback mode, linear decrease mode
- Dimming fade time
- Overload protection

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
AFR-A1-015S0450U-VT-PC	120-277VAC	15W	100-450mA	30-42VDC	TRIAC+0-10V	1-100%	86%	D58*H27 mm D2.2*H1.0 in.
AFR-A1-030S0900U-VT-PC	120-277VAC	30W	200-900mA	30-42VDC	TRIAC+0-10V	1-100%	87%	D58*H27 mm D2.2*H1.0 in.

CV WITH Enclosure



Wide Power Range
coverage: 36W-277W



Smooth, Flicker-free
Dimming to 0.1%



Output Voltage,
12/24/36/48V

5in1

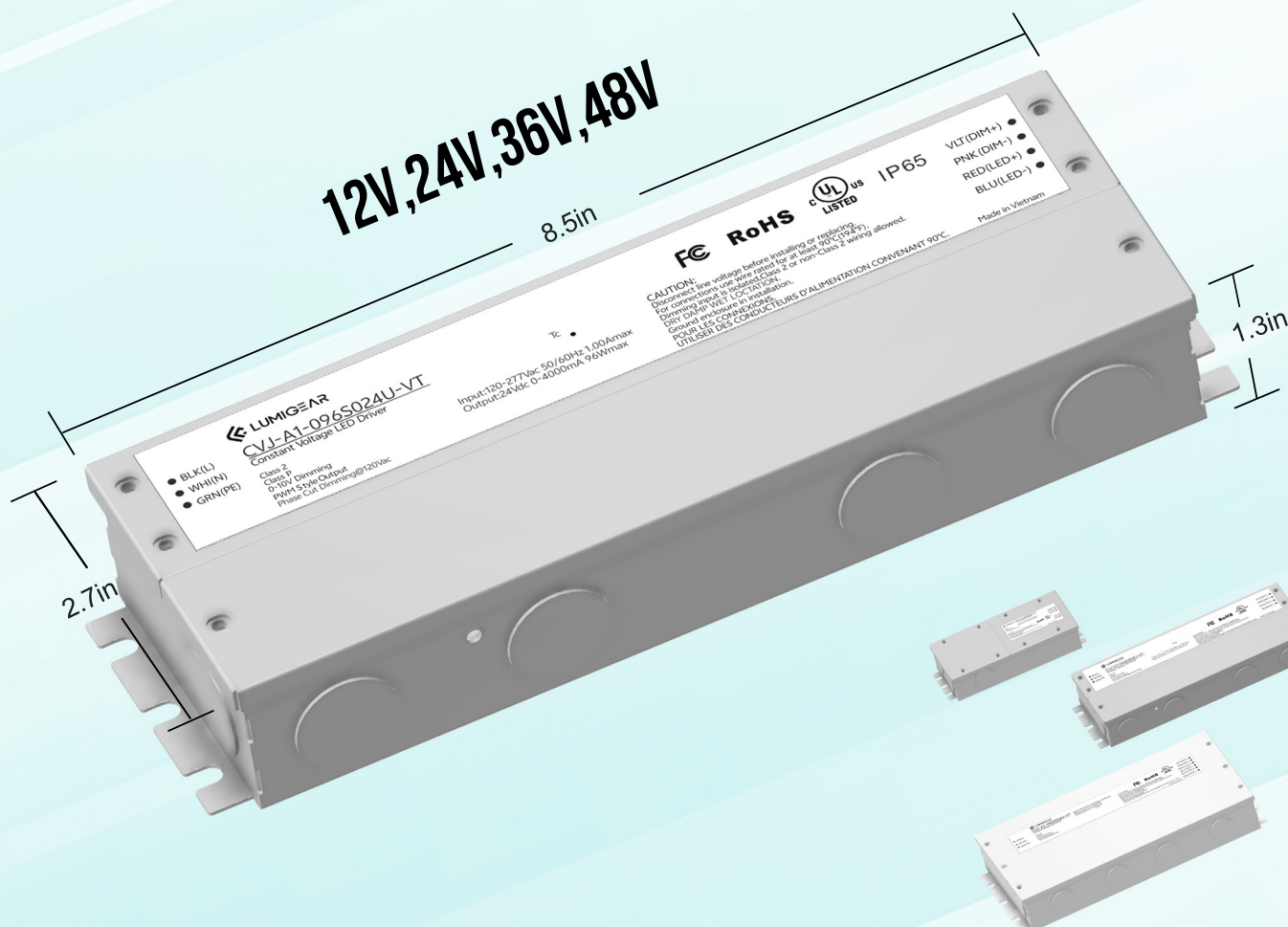
Five-in-one Dimming,
0-10V, 1-10V, MLV, ELV, TRIAC



DALI-2 DT6 DT8

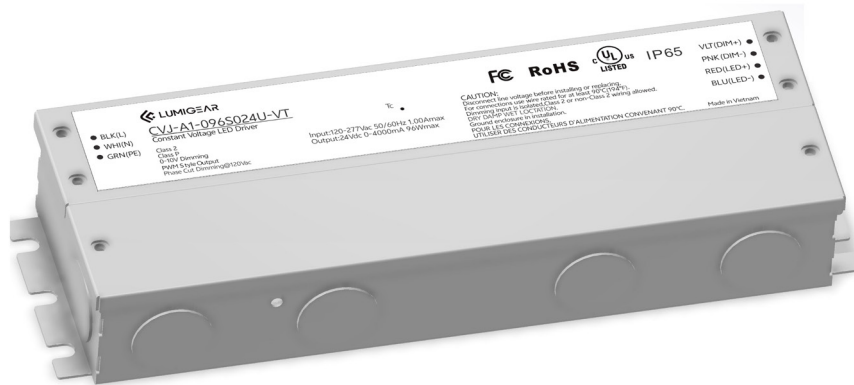
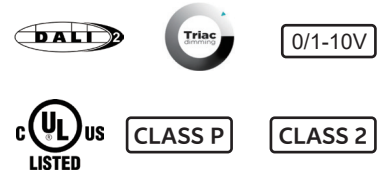


All-Round Protection,
SCP, OVP, OTP, OPP



CVJ-A1

DALI-2 or TRIAC + 0-10V



Features & Benefits

- Compact Design, 30% smaller than conventional enclosures.
- High Efficiency up to 94%
- 12V-48V output voltage options
- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- Field or factory installation
- Dry, damp and wet location design for indoor and outdoor installations
- Built-in APFC
- Isolated 0-10V dimming, dim down to 0.1%
- Complies with leading-edge/trailing-edge dimmer
- Wide load range from 10% to 100% (TRIAC Dimming)
- Flicker-free, excellent camera compatibility, spec-grade smoothness
- All-round protection: SCP, OVP, OTP, OPP(CC/CV mode, especially suitable for LED strip)
- Constant voltage PWM style output
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Optional Functions

- Input voltage: 120-277VAC or 120-347VAC
- Aux power, 12V/50mA

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
CVJ-A1-036S024U-VT	120-277VAC 120-347VAC	36W	0-1500mA	24VDC	TRIAC+0-10V	0.1%	85%	151*66*35.8 mm 5.9*2.6*1.4 in.
CVJ-A1-060S012X-VT CVJ-A1-060S024X-VT CVJ-A1-060S036X-VT CVJ-A1-060S048X-VT	120-277VAC 120-347VAC	60W	0-5000mA 0-2500mA 0-1667mA 0-1250mA	12VDC 24VDC 36VDC 48VDC	TRIAC+0-10V	0.1%	89%	217*69.5*35 mm 8.5*2.7*1.3 in.
CVJ-A1-096S024X-VT CVJ-A1-096S036X-VT CVJ-A1-096S048X-VT	120-277VAC 120-347VAC	96W	0-4000mA 0-2666mA 0-2000mA	24VDC 36VDC 48VDC	TRIAC+0-10V	0.1%	91%	217*69.5*35 mm 8.5*2.7*1.3 in.
CVJ-A1-192X024X-VT CVJ-A1-192X036X-VT CVJ-A1-192X048X-VT	120-277VAC 120-347VAC	2*96W	2*(0-4000)mA 2*(0-2666)mA 2*(0-2000)mA	24VDC 36VDC 48VDC	TRIAC+0-10V	0.1%	91%	233.6*115.6*40 mm 9.2*4.5*1.5 in.
CVJ-A1-288X024X-VT CVJ-A1-288X036X-VT CVJ-A1-288X048X-VT	120-277VAC	3*96W	3*(0-4000)mA 3*(0-2666)mA 3*(0-2000)mA	24VDC 36VDC 48VDC	TRIAC+0-10V	0.1%	94%	233.6*115.6*40 mm 9.2*4.5*1.5 in.

MINI CONSTANT VOLTAGE



Full Voltage Coverage,
Supporting 12/24/36/48V Output



Ultra-high Efficiency,
Up To 94% At Maximum



True 1% Dimming
Over Full Output Current Range

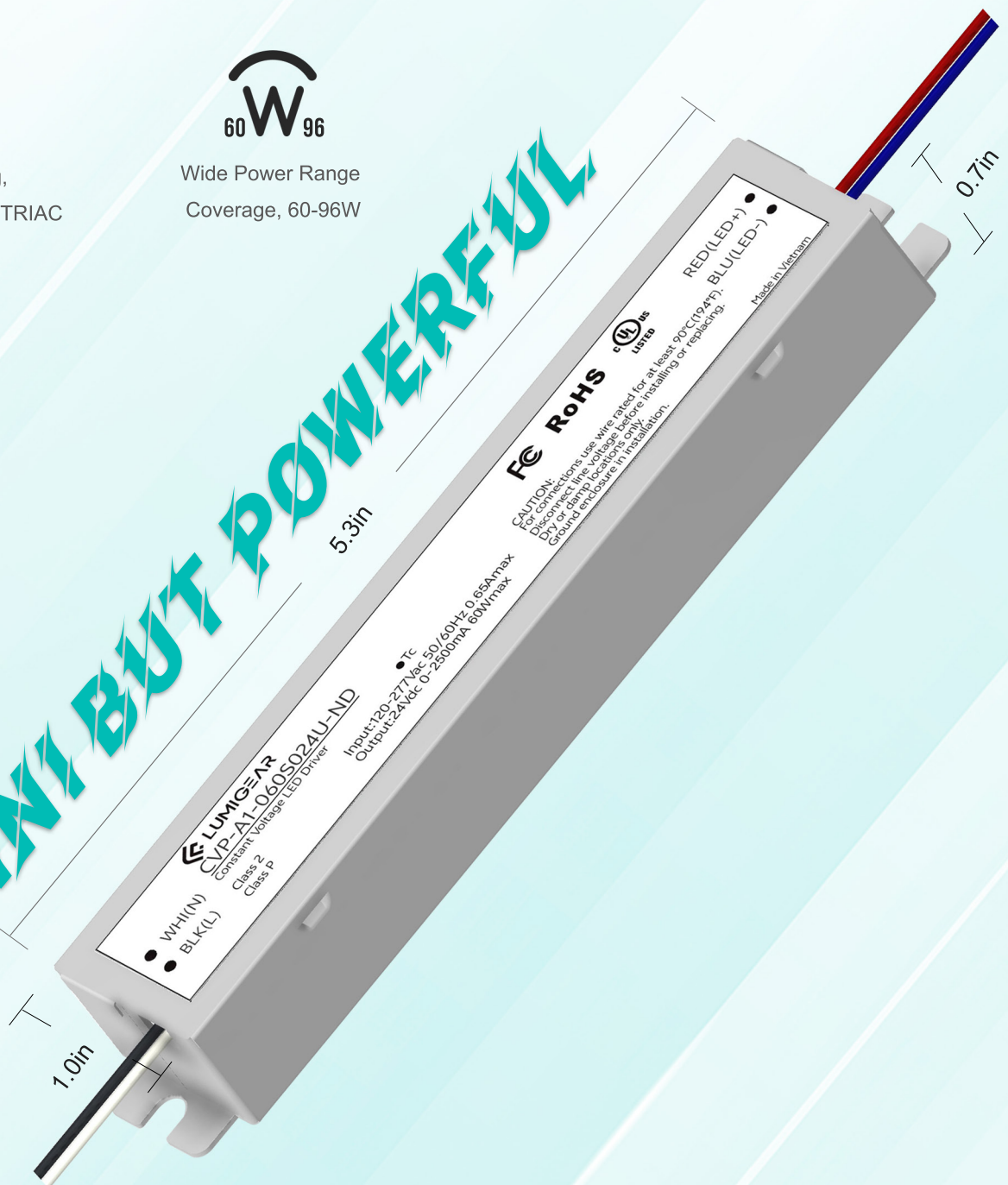
5in1

Five-in-one Dimming,
0-10V, 1-10V, MLV, ELV, TRIAC

60W₉₆

Wide Power Range
Coverage, 60-96W

MINI BUT POWERFUL



CVP-B1

TRIAC + 0-10V

5in1

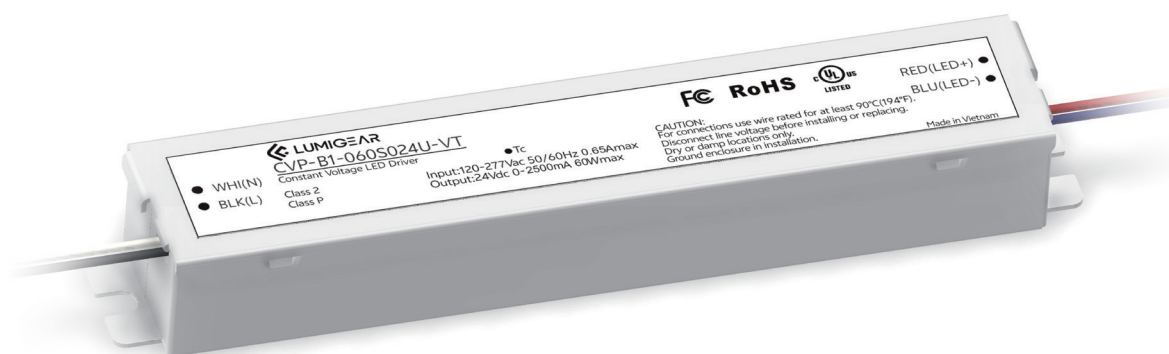


0/1-10V



CLASS P

CLASS 2



Features & Benefits

- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- High efficiency up to 94%
- 12V-48V output voltage options
- Isolated 0-10V dimming, dimming down to 0.1%
- IP20 rated case with silicone-based potting
- All-round Protection: SCP, OVP, OPP(CC/CV mode, especially suitable for LED strip)
- Constant voltage PWM style output
- UL Class2 output, Class P
- Operating temperature: -35°C~+50°C
- Complies with IEEE1789(≥1% dimming), UL8750

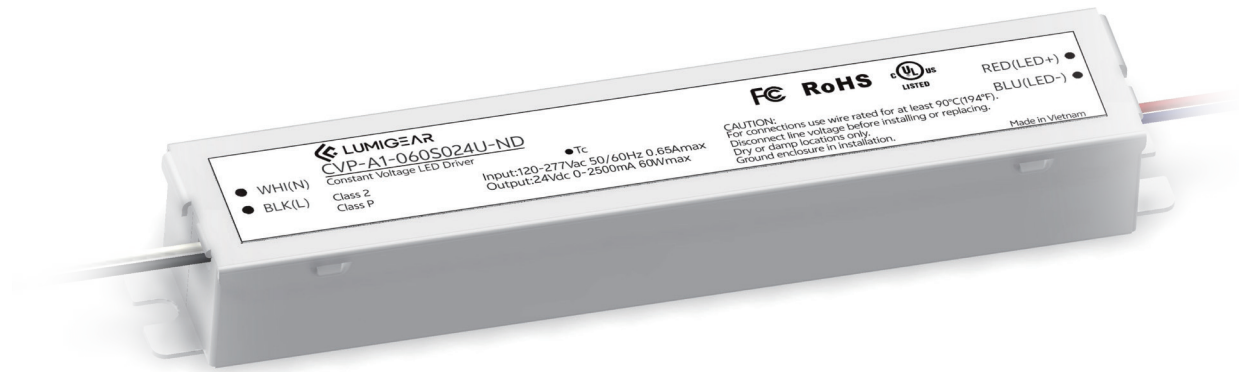
Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
CVP-B1-060S012U-VT	120-277VAC	60W	0-5000mA	12VDC	TRIAC+0-10V	0.1-100%	90%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-060S024U-VT	120-277VAC	60W	0-2500mA	24VDC	TRIAC+0-10V	0.1-100%	92%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-060S036U-VT	120-277VAC	60W	0-1667mA	36VDC	TRIAC+0-10V	0.1-100%	92%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-060S048U-VT	120-277VAC	60W	0-1250mA	48VDC	TRIAC+0-10V	0.1-100%	93%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-096S024U-VT	120-277VAC	96W	0-4000mA	24VDC	TRIAC+0-10V	0.1-100%	94%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-096S036U-VT	120-277VAC	96W	0-2667mA	36VDC	TRIAC+0-10V	0.1-100%	94%	176*26*19.5 mm 6.9×1.0×0.7 in.
CVP-B1-096S048U-VT	120-277VAC	96W	0-2000mA	48VDC	TRIAC+0-10V	0.1-100%	94%	176*26*19.5 mm 6.9×1.0×0.7 in.

CVP-A1



CLASS P

CLASS 2



Features & Benefits

- High Efficiency up to 94%
- 12V-48V output voltage options
- Compact design
- IP20 rated case with silicone-based potting
- All-round protection: SCP, OVP, OPP
- UL Class2 output, Class P
- Operating temperature: -35°C~+50°C
- Complies with IEEE1789, UL8750
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
CVP-A1-060S012U-ND	120-277VAC	60W	0-5000mA	12VDC	N/A	N/A	90%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-060S024U-ND	120-277VAC	60W	0-2500mA	24VDC	N/A	N/A	92%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-060S036U-ND	120-277VAC	60W	0-1667mA	36VDC	N/A	N/A	92%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-060S048U-ND	120-277VAC	60W	0-1250mA	48VDC	N/A	N/A	93%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-096S024U-ND	120-277VAC	96W	0-4000mA	24VDC	N/A	N/A	94%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-096S036U-ND	120-277VAC	96W	0-2667mA	36VDC	N/A	N/A	94%	136*26*19.5 mm 5.3*1.0*0.7 in.
CVP-A1-096S048U-ND	120-277VAC	96W	0-2000mA	48VDC	N/A	N/A	94%	136*26*19.5 mm 5.3*1.0*0.7 in.

CVW-A1

TRIAC + 0-10V

5in1



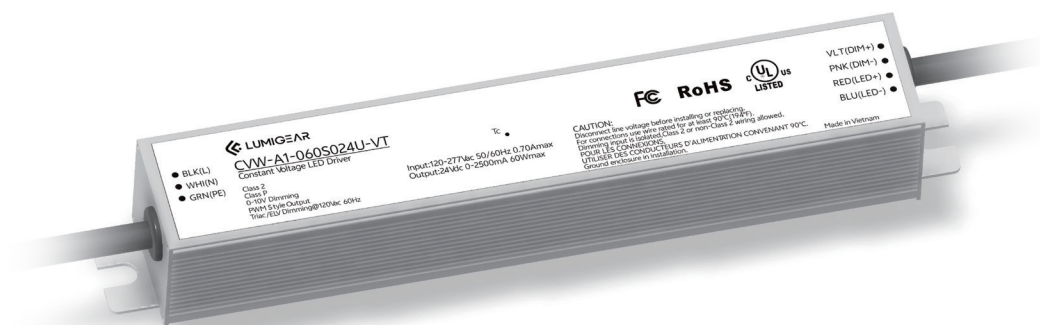
0/1-10V

IP 66



CLASS P

CLASS 2



Features & Benefits

- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- 12V-48V output voltage options
- Linear form factor, compact design
- Isolated 0-10V dimming, dimming down to 0.1%
- Flicker-free, excellent camera compatibility, spec-grade smoothness
- All-round protection: SCP, OVP, OTP, OPP(CC/CV mode, especially suitable for LED strip)
- IP66 design for indoor and outdoor installations(wet location)
- Constant voltage PWM style output
- Class2, Class P
- Operating temperature: -35°C~+55°C

- Complies with IEEE1789(≥1% dimming), UL8750
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Optional Functions

- Input voltage: 120-277VAC or 120-347VAC
- Complies with leading-edge/trailing-edge dimmer
- Wide load range from 10% to 100%(TRIAC Dimming)
- Aux power, 12V/50mA

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
CVW-A1-060S012X-VT	120-277VAC 120-347VAC	60W	0-5000mA	12VDC	TRIAC+0-10V	0.1%	87%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-060S024X-VT	120-277VAC 120-347VAC	60W	0-2500mA	24VDC	TRIAC+0-10V	0.1%	88%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-060S036X-VT	120-277VAC 120-347VAC	60W	0-1667mA	36VDC	TRIAC+0-10V	0.1%	89%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-060S048X-VT	120-277VAC 120-347VAC	60W	0-1250mA	48VDC	TRIAC+0-10V	0.1%	89%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-096S024X-VT	120-277VAC 120-347VAC	96W	0-4000mA	24VDC	TRIAC+0-10V	0.1%	90%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-096S036X-VT	120-277VAC 120-347VAC	96W	0-2666mA	36VDC	TRIAC+0-10V	0.1%	91%	217*33.5*29 mm 8.5*1.3*1.1 in.
CVW-A1-096S048X-VT	120-277VAC 120-347VAC	96W	0-2000mA	48VDC	TRIAC+0-10V	0.1%	91%	217*33.5*29 mm 8.5*1.3*1.1 in.

CVL-B1/A1

0-10V

0/1-10V



CLASS P

CLASS 2



Features & Benefits

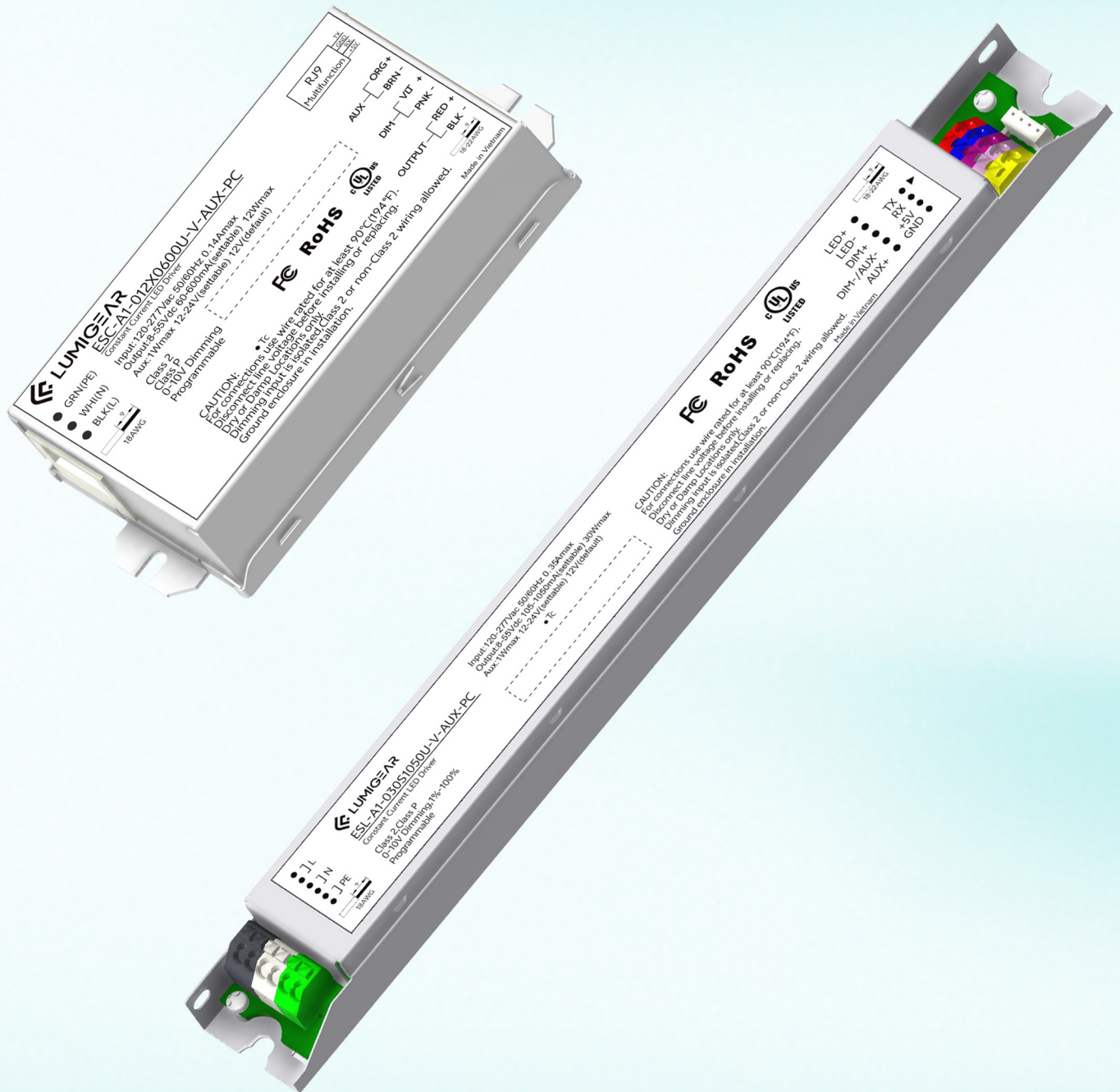
- All-round protection: SCP, OVP, OTP, OPP(CC/CV mode, especially suitable for LED strip)
- Flicker-free, excellent camera compatibility, spec-grade smoothness
- Isolated 0-10V dimming, PWM output, down to 0.1% dimming level
- Painted sheet steel
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Optional Function

- Aux power of 12V/100mA
- Category B 6KV/IP65

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
CVL-B1-060SXXXU-V	120-277VAC	60W	0-5000mA 0-2500mA	12VDC 24VDC	0-10V	0.1%	87%	242*44.5*30.5 mm 9.5*1.7*1.0 in.
CVL-A1-060SXXXU-ND	120-277VAC	60W	0-5000mA 0-2500mA	12VDC 24VDC	N/A	N/A	88%	242*44.5*30.5 mm 9.5*1.7*1.2 in.
CVL-B1-096SXXXU-V	120-277VAC	96W	0-4000mA 0-2000mA	24VDC 48VDC	0-10V	0.1%	89%	242*44.5*30.5 mm 9.5*1.7*1.2 in.
CVL-A1-096SXXXU-ND	120-277VAC	96W	0-4000mA 0-2000mA	24VDC 48VDC	N/A	N/A	90%	242*44.5*30.5 mm 9.5*1.7*1.2 in.

PD/ES-Premium Drivers



PDC-A1

TRIAC + 0-10V

5in1



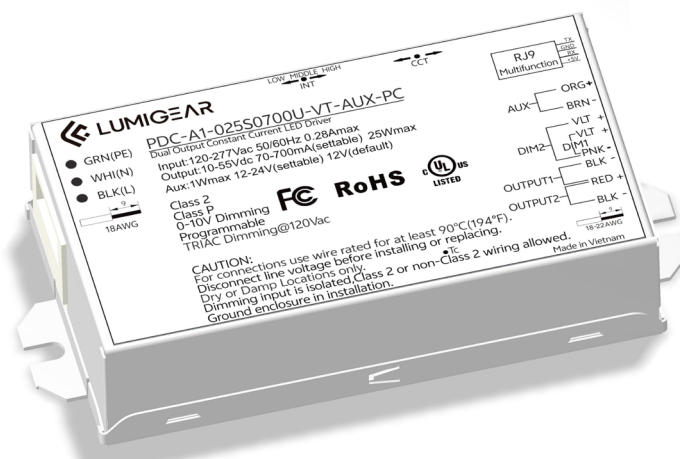
0/1-10V

CCT



CLASS P

CLASS 2



Features & Benefits

- Five-in-one dimming: 0-10V, 1-10V, MLV, ELV, TRIAC
- Wide current range coverage: 70-1500 mA
- Wide voltage range coverage: 10-55 VDC
- Compact form factor, metal sheet case(white)
- TRIAC dimming + isolated 0-10V dimming , dimming down to true 1%
- Suitable for indoor use
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current, dim to off, min dimming level
- Log/linear/square dimming curves
- OTP point of driver, LED thermal protection, luminous decay compensation
- Output voltage of aux power

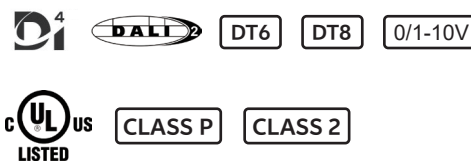
Optional Functions

- Aux power: 12-24V programmable, 1W
- Built-in 3 current adjustment by INT switch
- Built-in 3/4/5CCT switch
- Mounting feet or stud type
- Digital and analog interface ready

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
PDC-A1-012S0700U-VT-AUX-XX	120-277VAC	12W	70-700mA	10-55VDC	TRIAC+2*0-10V	1-100%	87%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
PDC-A1-025S0700U-VT-AUX-XX	120-277VAC	25W	70-700mA	10-55VDC	TRIAC+2*0-10V	1-100%	88%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
PDC-A1-040S1200U-VT-AUX-XX	120-277VAC	40W	120-1200mA	10-55VDC	TRIAC+2*0-10V	1-100%	88.5%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
PDC-A1-055S1500U-VT-AUX-XX	120-277VAC	55W	150-1500mA	10-55VDC	TRIAC+2*0-10V	1-100%	89.5%	127*60.3*27.5 mm 5.0*2.3*1.1 in.

PDL-B1/C1/D1/A1

DALI-2 or 0-10V



Features & Benefits

- Wide current range coverage: 140-2300 mA
- Wide voltage range coverage: 8-55 VDC
- Linear form factor, metal sheet case(white), side feed
- Dimmable built-in constant current independent dual outputs LED driver, dimming down to true 1%.
- DALI-2 Standard: IEC62386-101{ed2.0}-2014, IEC62386-102{ed2.0}-2014, IEC62386-207{ed2.0}-2018, IEC62386-209{ed1.0}-2011
- Low standby power: <0.7W@120VAC
- Suitable for indoor use
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Feature

- Output current
- Colour temperature range
- OTP point, luminous decay compensation, LED thermal protection(NTC)
- Overload protection point
- Dimming curve: log/linear
- Selectable dimming modes: solo dimming, warm dimming, tunable white, dual dimming, DT8 dimming.

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
PDL-B1-030S1400X-DT6-X PDL-C1-030D1400X-DT8-X PDL-D1-030S1400X-D4i-X PDL-A1-030D1400X-V-X	120-277VAC 120-347VAC	30W	2*(140-1400)mA	8-55VDC	DT6 DT8 D4i 0-10V	1-100%	89%	280*30*21.5 mm 11.0*1.2*0.8 in.
PDL-B1-050S1400X-DT6-X PDL-C1-050D1400X-DT8-X PDL-D1-050S1400X-D4i-X PDL-A1-050D1400X-V-X	120-277VAC 120-347VAC	50W	2*(140-1400)mA	8-55VDC	DT6 DT8 D4i 0-10V	1-100%	89%	280*30*21.5 mm 11.0*1.2*0.8 in.
PDL-B1-085S2300X-DT6-X PDL-C1-085D2300X-DT8-X PDL-D1-085S2300X-D4i-X PDL-A1-085D2300X-V-X	120-277VAC 120-347VAC	85W	2*(230-2300)mA	10-55VDC	DT6 DT8 D4i 0-10V	1-100%	90%	380*30*25.4 mm 15.0*1.2*1.0 in.

ESC- B1

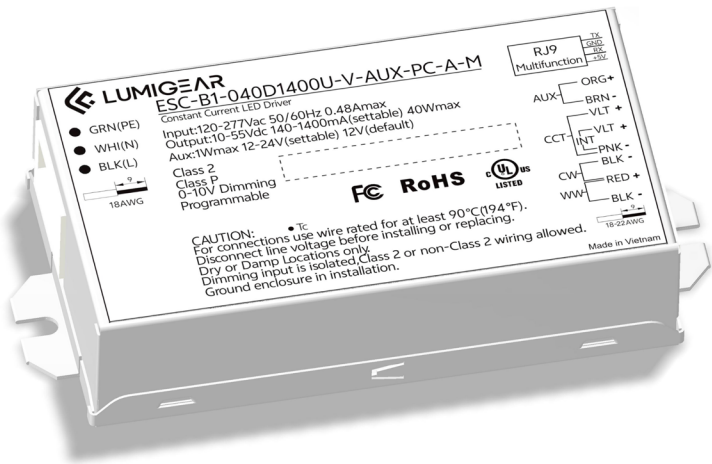
0-10V

0/1-10V

US
LISTED

CLASS P

CLASS 2



Features & Benefits

- Wide current range coverage: 125-2000 mA
- Wide voltage range coverage: 10-55 VDC
- Compact form factor, metal sheet case
- Two Isolated 0-10V dimming Interfaces, dimming down to true 1%
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current, dim to off, min dimming level, output voltage of aux power
- OTP point of driver , LED thermal protection
- End-of-life indicator, fade in time, over load protection point
- Log/linear/square dimming curves
- Selectable dimming modes: warm dimming, tunable white, and solo dimming

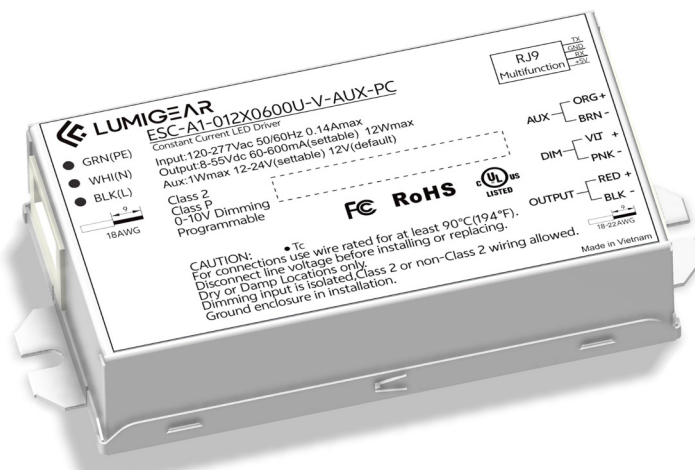
Optional Functions

- Aux power: 12-24V programmable, 1W
- Built-in current adjustment by 3INT switch
- Built-in 5CCT switch
- Mounting feet or stud type
- Digital and analog interface ready

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
ESC-B1-025D1250X-V-AUX-PC	120-277VAC 120-347VAC	25W	125-1250mA	10-55VDC	0-10V	1-100%	87%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
ESC-B1-040D1400X-V-AUX-PC	120-277VAC 120-347VAC	40W	140-1400mA	10-55VDC	0-10V	1-100%	89%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
ESC-B1-055D2000X-V-AUX-PC	120-277VAC 120-347VAC	55W	200-2000mA	10-55VDC	0-10V	1-100%	89%	127*60.3*27.5 mm 5.0*2.3*1.1 in.

ESC-A1

0-10V



Features & Benefits

- Wide current range coverage: 60-2000 mA
- Wide voltage range coverage: 8-55 VDC
- Compact form factor, metal sheet case
- Isolated 0-10V dimming, dimming down to true 1%
- Suitable for indoor use
- Flicker-free, excellent camera compatibility
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Features

- Output current, dim to off, min dimming level, output voltage of aux power
- OTP point of driver, LED thermal protection, luminous decay compensation
- End-of-life indicator, fade in time, overload protection point

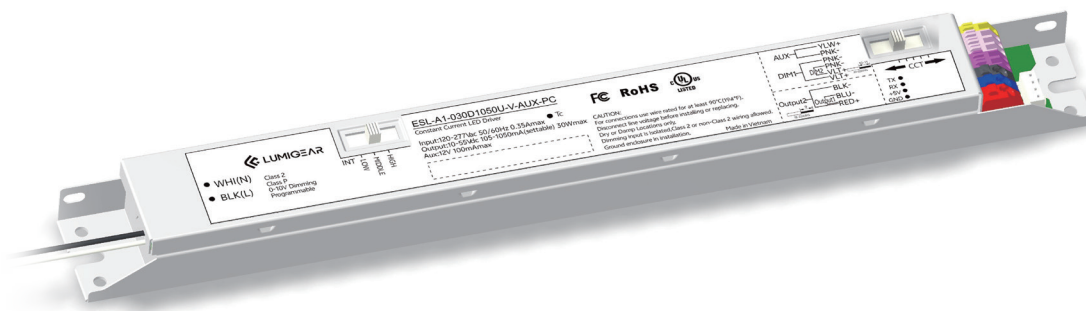
Optional Functions

- Aux power: 12-24V programmable, 1W
- Built-in 3 current adjustment by INT switch
- Built-in 3/4/5CCT switch
- Mounting feet or stud type
- Digital and analog interface ready

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
ESC-A1-012X0600X-V-AUX-PC	120-277VAC 120-347VAC	12W	60-600mA	8-55VDC	0-10V	1-100%	85.5%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
ESC-A1-025X1250X-V-AUX-PC	120-277VAC 120-347VAC	25W	125-1250mA	8-55VDC	0-10V	1-100%	89%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
ESC-A1-040X1400X-V-AUX-PC	120-277VAC 120-347VAC	40W	140-1400mA	8-55VDC	0-10V	1-100%	90%	127*60.3*27.5 mm 5.0*2.3*1.1 in.
ESC-A1-055X2000X-V-AUX-PC	120-277VAC 120-347VAC	55W	200-2000mA	10-55VDC	0-10V	1-100%	90%	127*60.3*27.5 mm 5.0*2.3*1.1 in.

ESL-A1

0-10V



Features & Benefits

- Wide current range coverage: 70-2300 mA
- Wide voltage range coverage: 8-55 VDC
- Linear form factor, metal sheet case(white), side feed
- Isolated 0-10V dimming interface, dimming down to true 1%
- Low standby power: <0.7W@120VAC
- Suitable for indoor use
- Flicker-free, excellent camera compatibility, spec-grade smoothness
- Nominal lifetime up to 50,000 hours
- 5-year warranty

Programmable Feature

- Output current, dim to off, min dimming level
- OTP point of driver, LED module thermal protection, luminous decay compensation,
- End-of-life indicator, fade in time, overload protection point
- Dimming curve: log/linear/square dimming curves

Optional Functions

- Aux power, 100mA/12V
- Built-in programmable 3/4/5INT and 3/4/5CCT selection switch

Model	Rated Input Voltage	Max Output Power	Output Current	Rated Output Voltage	Dimming Control	Dimming Range	Efficiency	Dimension
ESL-A1-023S0700X-V-AUX-X	120-277VAC 120-347VAC	23W	70-700mA	8-55VDC	0-10V	1-100%	85%	280*30*21.5 mm 11.0×1.2×0.8 in.
ESL-A1-030S1050X-V-AUX-X	120-277VAC 120-347VAC	30W	105-1050mA	8-55VDC	0-10V	1-100%	89%	280*30*21.5 mm 11.0×1.2×0.8 in.
ESL-A1-050S1400X-V-AUX-X	120-277VAC 120-347VAC	50W	140-1400mA	8-55VDC	0-10V	1-100%	89%	280*30*21.5 mm 11.0×1.2×0.8 in.
ESL-A1-060S2000X-V-AUX-X	120-277VAC 120-347VAC	60W	200-2000mA	10-55VDC	0-10V	1-100%	89%	280*30*21.5 mm 11.0×1.2×0.8 in.
ESL-A1-085S2300X-V-AUX-X	120-277VAC 120-347VAC	85W	230-2300mA	10-55VDC	0-10V	1-100%	90%	380*30*25.4 mm 14.9×1.2×1.0 in.
ESL-A1-030D1050X-V-AUX-PC	120-277VAC 120-347VAC	30W	105-1050mA	10-55VDC	2*0-10V	1-100%	88%	280*30*21.5 mm 11.0×1.2×0.8 in.
ESL-A1-050D1400X-V-AUX-PC	120-277VAC 120-347VAC	50W	140-1400mA	10-55VDC	2*0-10V	1-100%	90%	280*30*21.5 mm 11.0×1.2×0.8 in.



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