LED Drivers

Product Catalog

www.DeltaPSU.com

About Delta

Delta, founded in 1971, and listed on the Taiwan Stock Exchange (code:2308), is a global leader in switching power supplies and thermal management products with a thriving portfolio of IoT-based smart energy-saving systems and solutions in the fields of industrial automation, building automation, telecom power, data center infrastructure, EV charging, renewable energy, energy storage and display, to nurture the development of smart manufacturing and sustainable cities. As a world-class corporate citizen guided by its mission statement, To provide innovative, clean and energy-efficient solutions for a better tomorrow," Delta leverages its core competence in high-efficiency power electronics and its ESG-embedded business model to address key environmental issues, such as climate change. Delta serves customers through its sales offices, R&D centers and manufacturing facilities spread over close to 200 locations across 5 continents.

Throughout its history, Delta has received various global awards and recognition for its business achievements, innovative technologies and dedication to ESG. Since 2011, Delta has been listed on the Dow Jones Best-in-Class World Index (formerly the DJSI World Index of Dow Jones Sustainability™ Indices) for 14 consecutive years. Delta has also won CDP with double A List for 4 times for its substantial contribution to climate change and water security issues and has been named Supplier Engagement Leader for its continuous development of a sustainable value chain for 7 consecutive years.

For detailed information about Delta, please visit: www.deltaww.com

Business Categories

Power Electronics
- Components
- Power and System
- Fan & Thermal Management
- Innergie

Mobility
- EV Powertrain Systems

Automation
- Industrial Automation
- Building Automation

Infrastructure
- ICT Infrastructure
- Energy Infrastructure
- Display
- vivitek

About Power and System Business Group (PSBG)

- World's leading provider of power products and solutions
- First power product launched in 1983

Power Conversion

Smart Drive & Control

Battery Charger

Green Energy

Empowering a Smarter, Greener Future Together

PSBG offers cutting-edge power products and systems to innovate AI and cloud computing, network connectivity, client devices, industrial and medical industry, lighting, and appliances and e-mobility with global customers.

Standard Power Supply Business Unit (SPSBU)

- Established in 2000
- 1st LED driver launched in 2006
- More than 20 years of experience in lighting power
- Broad product portfolio

Turn On the Smart Future

Connected Smart Lighting

- DALI-2 certificated LED driver for single channel DT6 and tunable white DT8 applications
- D4i certificated LED driver support part 150/250/251/252/253 for inter-luminaire applications

High Efficiency & High Power Density

- Patented series resonant converter technology to enhance efficiency and power density
- Cutting-edge topology for improved performance

Digital & Wireless Solution

- Output current adjustment via wireless programming technology
- Wide output voltage and current operating window
- Precise dimming control with 1% output

Reliable Product Development

- Patented water-proof case design ensures consistent performance in high-temperature
- Cost-competitive IP67-rated LED drivers are ideal for various outdoor applications
- Over 10 years' experience in sophisticated product design and manufacturing

Contents

Product Selection Guide

Arena Sport LED Drivers

Series	Models	Iout (mA)	Pout (W)	Vin (V_{AC})	Channels	Dimming Type	Ingress Protection/ Environmental Locations	Programming Tool	Safety	MP SKDL	Page
ARENA SPORT	EUCO-600200GIA	700~2000	600	220-400	1 ch	DALI-2/D4i	IP66	SDPTDV05UAC	CE, ENEC, RCM, UKCA	New	8
	EUCO-600200GDA	700~2000	600	220-400	1 ch	RDM/DMX	IP66		CE, ENEC, RCM, UKCA	New	
	EUCO-600200GIC	700~2000	600	220-400	1 ch	DALI-2/D4i	IP66		CE, ENEC, RCM, UKCA	New	
	EUCO-600200GDC	700~2000	600	220-400	1 ch	RDM/DMX	IP66		CE, ENEC, RCM, UKCA	New	
	LNA-600A20AFCFA	700~2000	600	220-400	1 ch	DALI-2/D4i	IP66	SDPTDV05UAC	CE, ENEC, UL, RCM, UKCA, CCC	New	9
	EUCO-600200GID	700~2000	600	220-400	1 ch	DALI-2/D4i	IP66		CE, ENEC, RCM, UKCA	New	
	LNA-600A20AFCDA	700~2000	600	220-400	1 ch	RDM/DMX	IP66		CE, ENEC, UL, RCM, UKCA, CCC	New	
	EUCO-600200GDD	700~2000	600	220-400	1 ch	RDM/DMX	IP66		CE, ENEC, RCM, UKCA	New	
	EUCO-1K0140GLA	500~1400	1000	220-400	2 ch	DALI-2	IP66	SDPTDV05UAC	CE, ENEC, UKCA	MP	10
	EUCO-1K0140GDA	500~1400	1000	220-400	2 ch	RDM/DMX	IP66		CE, ENEC, UKCA		
	EUCO-1K5140GLA	500~1400	1500	220-400	2 ch	DALI-2	IP66		CE, ENEC, UKCA		
	EUCO-1K5140GDA	500~1400	1500	220-400	2 ch	RDM/DMX	IP66		CE, ENEC, UKCA		
	EUCO-1K4200GIA	700~2000	1400	220-400	2 ch	DALI-2/D4i	IP66	SDPTDV05UAC	CE, ENEC, RCM, UKCA	New	11
	EUCO-1K4200GDA	700~2000	1400	220-400	2 ch	RDM/DMX	IP66		CE, ENEC, RCM, UKCA	New	
	EUCO-2K1200GIA	700~2000	2100	220-400	3 ch	DALI-2/D4i	IP66		CE, ENEC, UL, RCM, UKCA	MP	
	EUCO-2K1200GDA	700~2000	2100	220-400	3 ch	RDM/DMX	IP66		CE, ENEC, UL, RCM, UKCA		
	LNA-1K2B20ABFGB	700~2000	1200	208-480	2 ch	DALI-2/D4i DMX/RDM	IP66	SDPTDV05UAC	CE, ENEC, UL, RCM, UKCA, CCC	New	12
	EUCO-1K2200GCA	700~2000	1200	208-480	2 ch	DALI-2/D4i DMX/RDM	IP66		CE, ENEC, UL, RCM, UKCA	New	
	LNA-1K6C20ABFGB	700~2000	1650	208-480	3 ch	DALI-2/D4i DMX/RDM	IP66		CE, ENEC, UL, RCM, UKCA, CCC	New	
	EUCO-1K6200GCA	700~2000	1650	208-480	3 ch	DALI-2/D4i DMX/RDM	IP66		CE, ENEC, UL, RCM, UKCA	New	
	LNA-1K8C20ABFGB	700~2000	1800	208-480	3 ch	DALI-2/D4i DMX/RDM	IP66		CE, ENEC, UL, RCM, UKCA, CCC	New	
	EUCO-1K8200GCA	700~2000	1800	208-480	3 ch	DALI-2/D4i DMX/RDM	IP66		CE, ENEC, UL, RCM, UKCA	New	
	LNA-1K2D12ABFGB	150~1200	1200	208-480	4 ch	2 in 1 DALI-2/D4i DMX/RDM	IP66	SDPTDV05UAC	CE, ENEC, RCM, UKCA, CCC	New	13
	EUCO-1K2120RCA	150~1200	1200	208-480	4 ch	2 in 1 DALI-2/D4i DMX/RDM	IP66		CE, ENEC, RCM, UKCA	New	

Outdoor/Indoor LED Drivers

Series	Model	Iout (mA)	Pout (W)	Vin (V_{AC})	Dimming Type	Ingress Protection/ Environmental Locations	Programming Tool	Safety	MP SKDL	Page
EUCI PREMIUM	EUCI-022105GIA	200-1050	22	220-240	DALI-2/D4i	IP20	NFC or SDPTDV05UAC	CE, ENEC, UKCA	MP	16
	EUCI-040105GIA	200-1050	40	220-240	DALI-2/D4i	IP20		CE, ENEC, UKCA		
	EUCI-075105GIA	200-1050	75	220-240	DALI-2/D4i	IP20		CE, ENEC, UKCA		
	EUCI-130105GIA	200-1050	130	220-240	DALI-2/D4i	IP20		CE, ENEC, UKCA		
	EUCI-170105GIA	200-1050	170	220-240	DALI-2/D4i	IP20		CE, ENEC, UKCA		
EUCI LITE	EUCI-022105GLB	200-1050mA	22	220-240	DALI-2	IP20	NFC or SDPTDV05UAC	CE, ENEC, UKCA	MP	17
	EUCI-040105GLB	200-1050mA	40	220-240	DALI-2	IP20		CE, ENEC, UKCA		
	EUCI-075105GLB	200-1050mA	75	220-240	DALI-2	IP20		CE, ENEC, UKCA	New	
	EUCI-130105GLB	200-1050mA	130	220-240	DALI-2	IP20		CE, ENEC, UKCA	New	
	EUCI-170105GLB	200-1050mA	170	220-240	DALI-2	IP20		CE, ENEC, UKCA	New	
EUCI BASIC	EUCI-040105GLA	200-1050	40	220-240		IP20	NFC	CE, ENEC, UKCA	New	18
	EUCI-075105GLA	200-1050	75	220-240		IP20		CE, ENEC, UKCA	New	
	EUCI-130105GLA	200-1050	130	220-240		IP20		CE, ENEC, UKCA	New	
	EUCI-170105GLA	200-1050	170	220-240		IP20		CE, ENEC, UKCA	New	
USCI LITE	USCI-055180GB	520-1800	55	120-277	0-10V	Dry and Damp	SDPTDV05UAC	UL	MP	19
	USCI-100140GB	600-1400	100	120-277	0-10V	Dry and Damp		UL		
	USCI-200140GB	600-1400	200	120-277	0-10V	Dry and Damp		UL		
USC4 LITE	USC4-055180GB	520-1800	55	277-480	0-10V	Dry and Damp	SDPTDV05UAC	UL	MP	20
	USC4-100140GB	600-1400	100	277-480	0-10V	Dry and Damp		UL		
	USC4-200140GB	600-1400	200	277-480	0-10V	Dry and Damp		UL		
USCO PRO	USCO-320210GA	700-2100	320	110-277	0-10V	IP66/IP67/ Wet	SDPTDV05UAC	UL,CE, ENEC,UKCA	MP	21
	USCO-320280GA	700-2800	320	110-277	0-10V	IP67/ Wet		UL,CE, ENEC,UKCA		
	USCO-600400GA	1000-3000	600	120-277	0-10V	IP66/IP67/ Wet		UL,CE, ENEC,UKCA		
USC4 PRO	USC4-320280GA	1400-2800	320	277-480	0-10V	Wet	SDPTDV05UAC	UL	MP	22
	USC4-600400GA	1000-3000	600	277-480	0-10V	Wet		UL		
USCT LINEAR	USCT-030105GA	350-1050	30	120-277	0-10V	Dry and Damp	PTDV05UB	UL, Class 2	MP	23
	USCT-050140GA	350-1400	50	120-277	0-10V	Dry and Damp		UL, Class 2		
	USCT-080210GA	700-2100	80	120-277	0-10V	Dry and Damp		UL, Class 2		
	USCT-040105LA	350-1050	Ch1+Ch2 =40W	110-277	DALI-2	Dry and Damp	SDPTDV05UAC	UL, Class 2	New	
	USCT-040105L2A	350-1050	40	110-277	DALI-2	Dry and Damp		UL, Class 2	New	

Product Overview

Signage & Refrigeration LED Drivers

Series	Model Name	Vout (V)	Pout (W)	Vin (V)	Dimming Type	Ingress Protection/ Environmental Locations	Safety	MP SKDL	Page
USVI S12	USVI-020012FA	12	20	120-277	X	IP54 / Dry and Damp	UL, CE, UKCA	MP	26
	USVI-060012FG	12	60	120-277	X	IP54 / Dry and Damp	UL, CE, UKCA		
	USVI-060012DG	12	60	120-277	0-10V	IP54 / Dry and Damp	UL, CE, UKCA		
	USVI-060012FF	12	60	120-277	X	IP54 / Dry and Damp	UL, CSA		27
	USVI-060012FH	12	60	120-277	X	IP54 / Dry and Damp	UL, CSA		
	USVI-120012FA	12 x 2ch	60 x 2ch	120-277	X	IP54 / Dry and Damp	UL, CSA		
	USVI-180012FA	12 x 3ch	60 x 3ch	120-277	X	IP54 / Dry and Damp	UL, CSA		
USVI S24	USVI-020024FA	24	20	120-277	X	IP54 / Dry and Damp	UL, CE, UKCA	MP	28
	USVI-060024FG	24	60	120-277	X	IP54 / Dry and Damp	UL, CE, UKCA		
	USVI-060024DG	24	60	120-277	0-10V	IP54 / Dry and Damp	UL, CE, UKCA		
	USVI-060024FH	24	60	120-277	X	IP54 / Dry and Damp	UL, CSA, CE, ENEC, UKCA		
	USVI-100024DG	24	96	120-277	0-10V	IP54 / Dry and Damp	UL, CE, UKCA		29
	USVI-100024FG	24	96	120-277	X	IP54 / Dry and Damp	UL, CE, UKCA		
	USVI-100024FE	24	96	120-277	X	IP54 / Dry and Damp	UL		
	USVI-200024FA	24 x 2ch	96×2ch	120-277	X	IP54 / Dry and Damp	UL, CSA		
USVI RDL	USVI-020024FR	24	20	198-264	X	IP50/ Dry and Damp	CE, ENEC, UKCA	MP	30
	USVI-060024FR	24	60	108-305	X	IP54/ Dry and Damp	UL, CE, ENEC, UKCA, CCC		
	USVI-080024FR1	24	80	108-305	X	IP54/ Dry and Damp	UL, CE, ENEC, UKCA, CCC		
	USVI-100024FR1	24	96	108-305	X	IP54/ Dry and Damp	UL, CE, ENEC, UKCA, CCC		
	USVI-240024FR	24	240	220- 240	X	IP54/ Dry and Damp	CE, ENEC, UKCA		

Signage & Refrigeration LED Drivers

Series	Models	Vout (V)	Pout (W)	Vin (V)	Dimming Type	Ingress Protection/ Environmental Locations	Safety	MP SKDL	Page
LNE	LNE-12V320WA□A LNE-12V320WB□A LNE-12V320WD□A	12	270	100-277	0-10V	IP67	CA: CE, CCC, ENEC AA: UL	MP	31
	LNE-24V320WA□A LNE-24V320WB□A LNE-24V320WD□A	24	320	100-277	0-10V	IP67	CA: CE, CCC, ENEC AA: UL		
	LNE-36V320WA□A LNE-24V320WB□A LNE-36V320WD□A	36	320	100-277	0-10V	IP67	CA: CE, CCC, ENEC AA: UL		
	LNE-48V320WA□A LNE-24V320WB□A LNE-48V320WD□A	48	320	100-277	0-10V	IP67	CA: CE, CCC, ENEC AA: UL		
	LNE-24V600WBGA	24	600	100-277	X	IP67	UL, CE, ENEC		32
	LNE-36V600WBGA	36	601.2	100-277	X	IP67	UL, CE, ENEC		
	LNE-48V600WBGA	48	600	100-277	X	IP67	UL, CE, ENEC		
	LNE-54V600WBGA	54	600	100-277	X	IP67	UL, CE, ENEC		
JPVO S12	JPVO-030012FA	12	30	100-242	X	IP67	PSE Clause 1	MP	33
	JPVO-060012FA	12	60	100-242	X	IP67	PSE Clause 1		
	JPVO-100012FA	12	100	100-242	X	IP67	PSE Clause 1		
	JPVO-150012FA	12	150	100-242	X	IP67	PSE Clause 1		
JPVO S24	JPVO-030024FB	24	30	100-242	X	IP67	PSE Clause 1	New	34
	JPVO-060024FB	24	60	100-242	X	IP67	PSE Clause 1	New	
	JPVO-100024FB	24	100	100-242	X	IP67	PSE Clause 1	New	
	JPVO-150024FB	24	150	100-242	X	IP67	PSE Clause 1	New	
JPVI S12	JPVI-020012FA	12	20	100-277	X	IP54	PSE Clause 2	MP	35
	JPVI-060012FK	12	60	100-242	X	IP54	PSE Clause 1		
	JPVI-100012FK	12	100	100-242	X	IP54	PSE Clause 1		
	JPVI-150012FK	12	150	100-242	X	IP54	PSE Clause 1		

Arena Sport LED Drivers

Introduction

The ARENA SPORT Series by Delta offers high-performance constant current LED drivers for sports lighting and industrial lighting applications, including architectural, stage, areas, and horticulture, etc. Designed for precision, efficiency, and adaptability, they support two-way communication via DALI-2 & D4i or DMX/RDM. With IP66-rated durability, programmable output channels, and remote installation up to 300 meters, the series ensures reliable operation in harsh and dynamic environments.

Featured Products

ARENA SPORT NEW

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 & D4i or DMX-RDM

ARENA SPORT

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 or DMX-RDM

ARENA SPORT NEW

- Universal input voltage (187-528 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free and no afterglow effect
- Built-in 2 in 1: DALI-2 & D4i + DMX-RDM

ARENA SPORT NEW

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 or DMX-RDM

ARENA SPORT NEW

- Universal input voltage (187-528 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 4*DT6 or 4*DMX)
- RGBW application
- Flicker-free and no afterglow effect
- Built-in 2 in 1: DALI-2 & D4i + DMX-RDM

ARENA SPORT

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 & D4i or DMX-RDM

Model		EUCO-600200GIA	EUCO-600200GDA	EUCO-600200GIC	EUCO-600200GDC
Output					
Output Voltage Range		200-550 V_{DC}			
Max. No Load Output Voltage		600 Vrms			
Max. Output Power Range		600 W			
Adjustable Output Current		700-2000 mA			
Current Accuracy		±3%			
Output Current Ripple		1% (pk-pk/avg)			
Input					
Input Voltage Range		198-440 V_{AC}			
Input Frequency Range		47-63 Hz			
Nomal Input Current	220 V_{AC}	3.1 A			
Efficiency	220 V_{AC}	96.2%			
	400 V_{AC}	96.8%			
Standby Power Consumption		0.4 W Typ. at 230 V_{AC}, in compliance with Erp (EU) 2019/2020			
Inrush Current (Apk / 50%-us)		15 A Typ. @ 400 V_{AC}, 50% Apk to 50% Apk time: 2ms			
Power Factor		0.98 Typ. @ 400 V_{AC}			
Leakage Current		< 1 mA @ 400 V_{AC}			
Mechanical					
Casing		Aluminum case, Color: Natural			
Dimensions (L x W x D)	mm / in	285 x 100 x 49 / 11.2 x 3.94 x 1.93			
Unit Weight	kg / lb	2.2 / 4.85			
Cooling System		Natural Convection			
Input		Wieland RST 20I3F S2 M01VH GN0: With the sign of L1, L2, PE			
Output		Amphenol CC-03PMFS-QC801P: With the sign of NTC, V+, V- for GIA and GDA With the sign of PE, V+ V- for GIC and GDC			
Dimming		Amphenol AD-03PMMS-QC8001: With the sign of DA+, DA- for GIA and GIC / With the sign of D1+, D1-, COM for GDA and GDC			
Environment					
Ambient Temperature	Operating	-40°C to +60°C			
	Storage	-40°C to +85°C			
Maximum Case Temperature		+85°C			
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)			
Ingress Protection		IP66			

Applications

Sports Lighting | High Bay Lighting | Floodlight Lighting | Area Lighting

ARENA SPORT

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 & D4i or DMX-RDM

*CCC is exclusively for the LNA ARENA SPORT Series

Model		LNA-600A20AFCFA (EUCO-600200GID)	LNA-600A20AFCDA (EUCO-600200GDD)
Output			
Output Voltage Range		200-550 V_{DC}	
Max. No Load Output Voltage		600 Vrms	
Max. Output Power Range		600 W	
Adjustable Output Current		700-2000 mA	
Current Accuracy		±3%	
Output Current Ripple		1% (pk-pk/avg)	
Input			
Input Voltage Range		198-440 V_{AC}	
Input Frequency Range		47-63 Hz	
Nomal Input Current	220 V_{AC}	3.1 A	
Efficiency	220 V_{AC}	96.2%	
	400 V_{AC}	96.8%	
Standby Power Consumption		0.4 W Typ. at 230 V_{AC}, in compliance with Erp (EU) 2019/2020	
Inrush Current (Apk / 50%-us)		15 A Typ. @ 400 V_{AC}, 50%Apk to 50%Apk time: 2ms	
Power Factor		0.98 Typ. @ 400 V_{AC}	
Leakage Current		< 1 mA @ 400 V_{AC}	
Mechanical			
Casing		Aluminum case, Color: Natural	
Dimensions (L x W x D)	mm / in	285 x 100 x 49 / 11.2 x 3.94 x 1.93	
Unit Weight	kg / lb	2.2 / 4.85	
Cooling System		Natural Convection	
Input		Line(L): Brown, Neutral(N): Blue, PE: Yellow & Green, SOOW & H07RN-F & 2PNCT, 3C/1.0 mm² (17AWG), Length: 300mm±25mm	
Output		Positive(V+): Brown, Negative(V-): Blue, PE: Yellow & Green, SOOW & H07RN-F & 2PNCT, 3C/1.0 mm² (17AWG), Length: 240mm±25mm	
Dimming		Positive(DA+): Purple, Negative(DA-): Pink, +24V: Black & White, Positive(D1+): Purple for LNA-600A20AFCFA (EUCO-600200GID) Negative(D1-): Pink, COM: Black & White, PLTC, 22 AWG, Length: 300mm±25mm for LNA-600A20AFCDA (EUCO-600200GDD)	
Environment			
Ambient Temperature	Operating	-40°C to +60°C	
	Storage	-40°C to +85°C	
Maximum Case Temperature		+85°C	
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)	
Ingress Protection		IP66	

Applications

Sports Lighting | High Bay Lighting | Floodlight Lighting | Area Lighting

ARENA SPORT

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 or DMX-RDM

Model		EUCO-1K0140GLA	EUCO-1K0140GDA	EUCO-1K5140GLA	EUCO-1K5140GDA
Output					
Output Voltage Range		260-500 V_{DC}			
Max. No Load Output Voltage		600 V_{DC}			
Max. Output Power Range		500 W per channel, 1.5 kW for 3 channels or 1.0 kW for 2 channels total			
Adjustable Output Current		500-1400 mA			
Current Accuracy		±3%			
Output Current Ripple		1% (pk-pk/avg)			
Input					
Input Voltage Range		198-440 V_{AC}			
Input Frequency Range		47-63 Hz			
Nomal Input Current	220 V_{AC}	4.8 A		7.2 A	
Efficiency	220 V_{AC}	95.2%			
	400 V_{AC}	96%			
Standby Power Consumption		< 0.5 W at 230 V_{AC}, in compliance with Erp (EU) 2019/2020			
Inrush Current (Apk / 50%-us)		25 A Typ., pulse width <8 mS @ 400 V_{AC}			
Power Factor		> 0.95 @ 198-440 V_{AC}, full load			
Leakage Current		< 1 mA @ 400 V_{AC}			
Mechanical					
Casing		Aluminum case, Color: Dark Gray			
Dimensions (L x W x D)	mm / in	500 x 152 x 77 / 19.69 x 5.98 x 3.03			
Unit Weight	kg / lb	5.4 / 11.9		5.6 / 12.35	
Cooling System		Natural Convection			
Input		Wago 264-103: With the sign of L, N, PE			
Output		Wago 264-111: With the sign of PE, NTC, V3+ V3-, V2+, V2-, V1+, V1-			
Dimming		Wago 264-111: With the sign of DA+, DA- for GLA / With the sign of COM, D1+, D1- for GDA			
Environment					
Ambient Temperature	Operating	-40°C to +50°C			
	Storage	-40°C to +85°C			
Maximum Case Temperature		+75°C		+85°C	
Relative Humidity	Operating	10 to 100% RH (Non-Condensing)			
Ingress Protection		IP66			
Impact Protection		IK08			

Applications

Sports Lighting · High Bay Lighting · Floodlight Lighting · Area Lighting

ARENA SPORT

- High input voltage (220-440 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free
- Built-in DALI-2 & D4i or DMX-RDM

Model		EUCO-1K4200GIA	EUCO-1K4200GDA	EUCO-2K1200GIA	EUCO-2K1200GDA
Output					
Output Voltage Range		250-550 V_{DC}			
Max. No Load Output Voltage		600 V_{DC}			
Max. Output Power Range		1400 W		2100 W	
Adjustable Output Current		700-2000 mA			
Current Accuracy		±3%			
Output Current Ripple		1% (pk-pk/avg)			
Input					
Input Voltage Range		198-440 V_{AC}			
Input Frequency Range		47-63 Hz			
Nomal Input Current	220 V_{AC}	7 A		11.5 A	
Efficiency	220 V_{AC}	96.7%		96.6%	
	400 V_{AC}	97.4%		97.3%	
Standby Power Consumption		< 0.5 W at 230 V_{AC}, in compliance with Erp (EU) 2019/2020			
Inrush Current (Apk / 50%-us)		25A Typ. @ 400 V_{AC}, 50%Apk to 50%Apk time: 2ms			
Power Factor		0.99 Typ. @ 400 V_{AC}			
Leakage Current		< 1 mA @ 400 V_{AC}			
Mechanical					
Casing		Aluminum case, Color: Dark Gray			
Dimensions (L x W x D)	mm / in	500 x 152 x 77 / 19.69 x 5.98 x 3.03			
Unit Weight	kg / lb	5.4 / 11.9		5.8 / 12.79	
Cooling System		Natural Convection			
Input		Wago 264-103: With the sign of L1, L2, PE			
Output		Wago 264-111: With the sign of PE, NTC, V2+, V2-, V1+, V1-		Wago 264-111: With the sign of PE, NTC, V3+, V3-, V2+, V2-, V1+, V1-	
Dimming		Wago 264-111: With the sign of DA+, DA- for GIA / With the sign of COM, D1+, D1- for GDA			
Environment					
Ambient Temperature	Operating	-40°C to +50°C			
	Storage	-40°C to +85°C			
Maximum Case Temperature		+85°C			
Relative Humidity	Operating	10 to 100% RH (Non-Condensing)			
Ingress Protection		IP66			
Impact Protection		IK08			

Applications

Sports Lighting · High Bay Lighting · Floodlight Lighting · Area Lighting

ARENA SPORT

- Universal input voltage (187-528 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 3*DT6 or 3*DMX)
- High surge protection
- Flicker-free and no afterglow effect
- Built-in 2 in 1: DALI-2 & D4i + DMX-RDM

*CCC is exclusively for the LNA ARENA SPORT Series

Model		LNA-1K2B20ABFGB (EUCO-1K2200GCA)	LNA-1K6C20ABFGB (EUCO-1K6200GCA)	LNA-1K8C20ABFGB (EUCO-1K8200GCA)
Output				
Output Voltage Range		150-550 V_{DC}		
Max. Output Power Range		1200 W	1650 W	1800 W
Adjustable Output Current		700-2000 mA		
Current Accuracy		±3%		
Output Current Ripple		1% (pk-pk/avg)		
Input				
Input Voltage Range		187-528 V_{AC}		
Input Frequency Range		47-63 Hz		
Nomal Input Current	220 V_{AC}	5.7 A	7.8 A	11.5 A
Efficiency	220 V_{AC}	96.3%	96.6%	96.5%
	400 V_{AC}	97%	97.3%	97.3%
Standby Power Consumption		< 0.5 W at 230 V_{AC}, in compliance with Erp (EU) 2019/2020		
Inrush Current (Apk / 50%-us)		14 A Typ. @ 480 V_{AC}, 50%Apk to 50%Apk time: 2ms		
Power Factor		0.97 Typ. @ 480 V_{AC}		
Total Harmonic Distortion		12.5% Typ. @ 480 V_{AC}, 100%	13.5% Typ. @ 480 V_{AC}, 100%	13% Typ. @ 480 V_{AC}, 100%
Leakage Current		< 1 mA @ 400 V_{AC}		
Mechanical				
Casing		Aluminum case, Color: Dark Gray		
Dimensions (L x W x D)	mm / in	500 x 152 x 77 / 19.69 x 5.98 x 3.03		
Unit Weight	kg / lb	5.4 / 11.9	5.6 / 12.35	5.8 / 12.79
Cooling System		Natural Convection		
Input		With the sign of L1, L2, PE		
Output	LED Load	PE, NTC, V2+, V2-, V1+, V1-	PE, NTC, V3+ V3-, V2+, V2-, V1+, V1-	
Dimming	DALI	DA+, DA-, +24V ("DA-" is the ground of "+24V")		
	DMX/RDM	D1+, D1-, COM		
Environment				
Ambient Temperature	Operating	-40°C to +50°C		
	Storage	-40°C to +85°C		
Maximum Case Temperature		+85°C		
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)		
Ingress Protection		IP66		
Impact Protection		IK08		

Applications

Sports Lighting | High Bay Lighting | Floodlight Lighting | Area Lighting

ARENA SPORT

- Universal input voltage (187-528 V_{AC})
- Configurable channel address mode (1*DT6 / 1*DMX or 4*DT6 or 4*DMX)
- RGBW application
- Flicker-free and no afterglow effect
- Built-in 2 in 1: DALI-2 & D4i + DMX-RDM

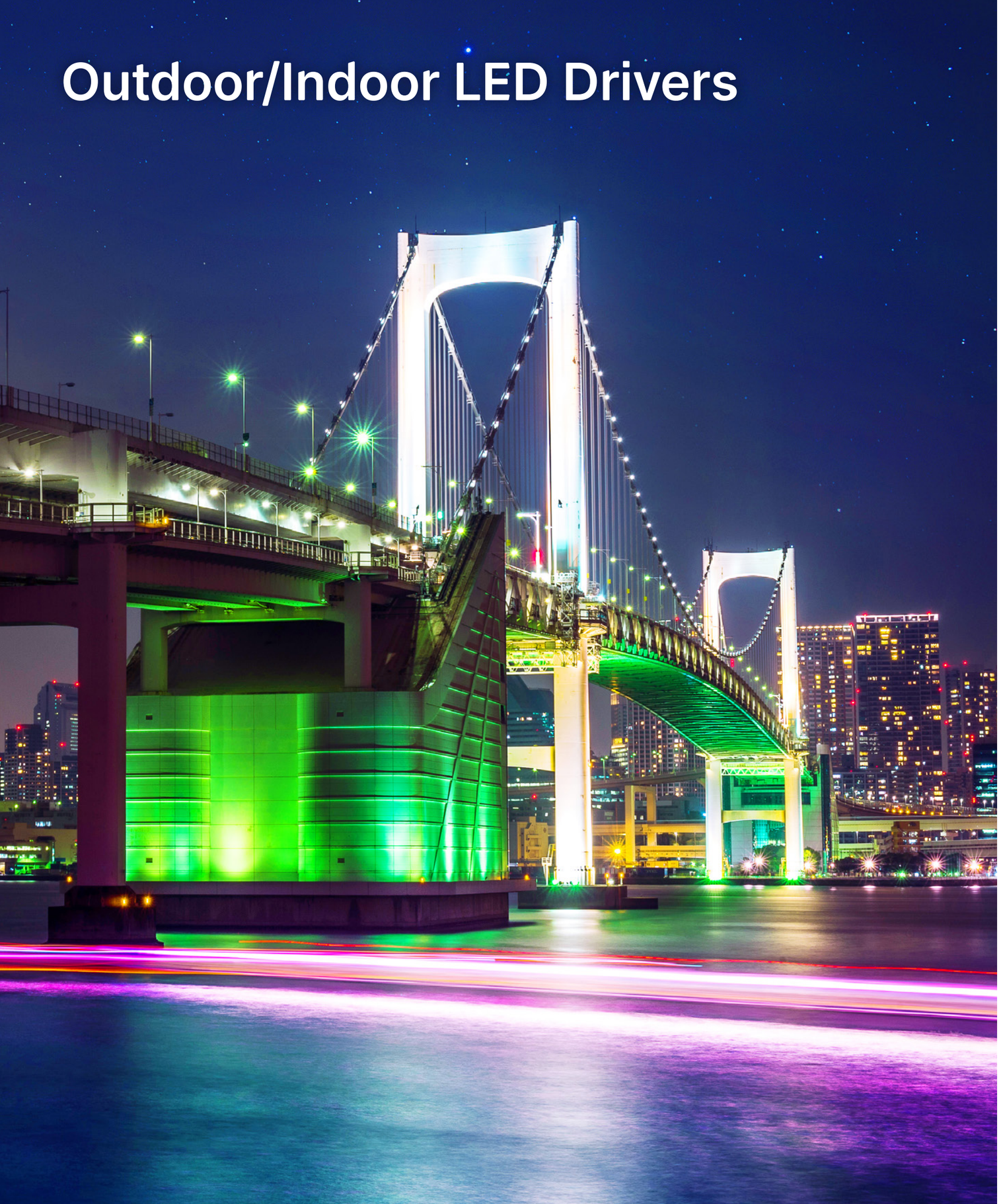
*CCC is exclusively for the LNA ARENA SPORT Series

Model		LNA-1K2D12ABFGB (EUCO-1K2120RCA)
Output		
Output Voltage Range		150-550 V_{DC}
Max. Output Power Range		1200 W
Adjustable Output Current		700-2000 mA
Current Accuracy		±3%
Output Current Ripple		1% (pk-pk/avg)
Input		
Input Voltage Range		187-528 V_{AC}
Input Frequency Range		47-63 Hz
Nomal Input Current	220 V_{AC}	5.7 A
Efficiency	220 V_{AC}	96.3%
	400 V_{AC}	97%
Standby Power Consumption		< 0.5 W at 230 V_{AC}, in compliance with Erp (EU) 2019/2020
Inrush Current (Apk / 50%-us)		14 A Typ. @ 480 V_{AC}, 50%Apk to 50%Apk time: 2ms
Power Factor		0.97 Typ. @ 480 V_{AC}
Total Harmonic Distortion		12.5% Typ. @ 480 V_{AC}, 100%
Leakage Current		< 1 mA @ 400 V_{AC}
Mechanical		
Casing		Aluminum case, Color: Dark Gray
Dimensions (L x W x D)	mm / in	500 x 152 x 77 / 19.69 x 5.98 x 3.03
Unit Weight	kg / lb	5.4 / 11.9
Cooling System		Natural Convection
Input		With the sign of L1, L2, PE
Output	LED Load	PE, NTC, V2+, V2-, V1+, V1-
Dimming	DALI	DA+, DA-, +24V ("DA-" is the ground of "+24V")
	DMX/RDM	D1+, D1-, COM
Environment		
Ambient Temperature	Operating	-40°C to +50°C
	Storage	-40°C to +85°C
Maximum Case Temperature		+85°C
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)
Ingress Protection		IP66
Impact Protection		IK08

Applications

Sports Lighting | High Bay Lighting | Floodlight Lighting | Area Lighting

Outdoor/Indoor LED Drivers



Introduction

For sustainability and environmental friendliness, businesses pursue energy efficiency and cost-saving methods. Enabling high energy efficiency in terms of lumens per watt, Delta Class 1 LED drivers reduce the energy cost of outdoorand industrial applications. Their programmable output provides the flexibility and the robust design enables a high level of protection against water and dust, ensuring the lighting works efficiently in the any situation.

Featured Products

EUCI PREMIUM / LITE / BASIC

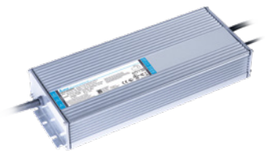
- Flexible and fully configuration via NFC
- EUCI PREMIUM: Meet D4i certification
- EUCI LITE: DALI-2 certified, 5-100% dimming range
- EUCI BASIC: Integrated 12 V_{DC}/100 mA auxiliary power supply
- High surge immunity (CM/DM)
- Suitable for Luminaires with Protection Class I and II
- High lifetime >50 khrs

USCI LITE

- Wide range constant current design
- Universal AC input voltage 120-277 V_{AC}
- Programmable output current via the Delta interface
- High surge immunity (CM 6kV/DM 6kV)
- 0-10V dimming available

USC4 LITE / PRO

- Wide range constant current design
- Main AC input voltage 277-480 V_{AC}
- Programmable output current via the Delta interface
- High surge immunity (CM 6kV/DM 6kV)
- 0-10V dimming available



USCO PRO

- Wide range constant current design
- Universal AC input voltage 120-277 V_{AC}
- Programmable output current via the Delta interface
- With IP66/IP67 protection from most outdoor application
- High surge immunity (CM 6kV/DM 6kV)
- 0-10V dimming available

USCT LINEAR

- Constant current design
- Universal input voltage 120 - 277 V_{AC}
- Class 2 output
- Programmable output current via the Delta interface
- Min. dimming 1% of output current

EUCI PREMIUM

- Integrated Bus Power Supply for sensors and radios (DALI part 250)
- Integrated 24 V_{DC} auxiliary power supply (DALI Part 150)
- Memory Bank 1 Extension / Luminaire Data (DALI part 251)
- Highly accurate energy reporting (DALI Part 252)
- Diagnostics & Maintenance data (DALI part 253)
- Easy to design-in with high surge protection - 10 kV for luminaires of protection class I and class II
- Midnight Centric Timer for autonomous dimming

Model		EUCI-022105GIA	EUCI-040105GIA	EUCI-075105GIA	EUCI-130105GIA	EUCI-170105GIA
Output						
Output Voltage Range		8-48 V_{DC}	20-77 V_{DC}	35-150 V_{DC}	60-200 V_{DC}	80-310 V_{DC}
Max. No Load Output Voltage		90 V	120 V	210 V	280 V	400 V
Output Power Range		22 W	40 W	75 W	130 W	170 W
Adjustable Output Current		200-1050 mA				
Output Current LF Ripple		4% (ripple = peak-average/average) at full load, (<100 Hz)				
Input						
Input Voltage Range		198-264 V_{AC}				
Input Frequency Range		47-63 Hz				
Max. Input Current	230 V_{AC}	0.13 A	0.23 A	0.41 A	0.70 A	0.87 A
Efficiency	230 V_{AC}	87% @ 0.46 A / 84% @ 1.05 A	89.5% @ 0.52 A / 86.5% @ 1.05 A	91% @ 0.5 A / 89.5% @ 1.05 A	93% @ 0.65 A / 92% @ 1.05 A	93.5% @ 0.55 A / 92.5% @ 1.05 A
Standby Power		0.5 W @ DALI standby mode, 230 V_{AC}				
Inrush Current	230 V_{AC}	15 A/180 uS	20 A/180 uS		65 A/200 uS	60 A/200 uS
Power Factor		> 0.95 @ 230 V_{AC} , 100% load				
Total Harmonic Distortion		< 13% @ 230 V_{AC}, 100% Load	< 8% @ 230 V_{AC}, 100% Load			< 12% @ 230 V_{AC}, 100% Load
Leakage Current		< 0.7 mA peak @ 230 V_{AC}				
Mechanical						
Casing		Plastic, Color : Black				
Dimensions (L x W x D)	mm / in	133 x 77 x 40 / 5.24 x 3.03 x 1.57			150 x 90 x 40 / 5.91 x 3.54 x 1.57	170 x 100 x 40 / 6.69 x 3.94 x 1.57
Unit Weight	kg / lb	0.57 / 126			0.72 / 1.59	0.99 / 2.18
Cooling System		Convection				
Input Connector		22/40/75W: Terminal, 5-pole (Line/Neutral/Space*2/EUQI), Conductor 0.5~2.5 mm², Strip length 10...11mm 130/170W: Terminal, 3-pole, (Line/Neutral/Space), Conductor 0.5~2.5 mm², Strip length 10...11mm				
Output and Control Connector		22/40/75W: Terminal, 7-pole (Output: LED+/LED-/MTP+/MTP-; Control: +24V/DA+/DA- or GND), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm 130/170W: Terminal, 11-pole (Output: Space/EQUI/Space*2/LED+/LED-/MTP+/MTP-; Control: +24V/DA+/DA- or GND), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm				
Environment						
Ambient Temperature	Operating	-40°C to +55°C				
	Storage	-40°C to +85°C				
Maximum Case Temperature		+85°C	+90°C			
Environmental Locations		IP20				

Applications

LED Streetlight | Area Lighting | Tunnel Lighting

EUCI LITE

- Flexible configurable operating windows via NFC, DALI
- Autonomous dimming includes three "Smart Timer Dim" operation modes with five independent levels: Fixed Timer, Midnight Centric Timer, and Ratio Rescale Timer
- High surge immunity 6 kV / 10 kV
- Design and fix for luminaires of protection class I and protection class II
- Meet Zhaga dimension criteria

Model		EUCI-022105GLB	EUCI-040105GLB	EUCI-075105GLB	EUCI-130105GLB	EUCI-170105GLB
Output						
Output Voltage Range		8-48 V_{DC}	20-77 V_{DC}	35-150 V_{DC}	60-200 V_{DC}	80-310 V_{DC}
Max. No Load Output Voltage		90 V	120 V	210 V	350 V	430 V
Output Power Range		22 W	40 W	75 W	130 W	170 W
Adjustable Output Current		200-1050 mA				
Output Current LF Ripple		4% (ripple = peak-average/average) at full load, (<100 Hz)				
Input						
Input Voltage Range		198-264 V_{AC}				
Input Frequency Range		47-63 Hz				
Max. Input Current	230 V_{AC}	0.12 A	0.23 A	0.43 A	0.68 A	0.87 A
Efficiency	230 V_{AC}	90% @ 0.46 A / 86% @ 1.05 A	90% @ 0.52 A / 87% @ 1.05 A	92% @ 0.5 A / 90% @ 1.05 A	93% @ 0.7 A / 92% @ 1.05 A	94% @ 0.55 A / 93% @ 1.05 A
Standby Power		0.5 W @ DALI standby mode, 230 V_{AC}				
Inrush Current	230 V_{AC}	20 A/250 uS			40 A/250 uS	60 A/250 uS
Power Factor		>0.95 @ 230 V_{AC}, 100% Load				
Total Harmonic Distortion		< 13% @ 230 V_{AC}, 100%	< 8% @ 230 V_{AC}, 100%		< 7% @ 230 V_{AC}, 100%	< 6% @ 230 V_{AC}, 100%
Leakage Current		< 0.7 mA peak @ 230 V_{AC}				
Mechanical						
Casing		Plastic, Color : Black				
Dimensions (L x W x D)	mm / in	133 x 77 x 40 / 5.24 x 3.03 x 1.57			150 x 90 x 40 / 5.91 x 3.54 x 1.57	170 x 100 x 40 / 6.69 x 3.94 x 1.57
Unit Weight	kg / lb	0.55 / 1.20			0.75 / 1.65	0.98 / 2.16
Cooling System		Convection				
Input Connector		22/40/75W: Terminal, 5-pole (Line/Neutral/Space*2/EUQI), Conductor 0.5~2.5 mm², Strip length 10...11mm 130/170W: Terminal, 2-pole, (Line/Neutral), Conductor 0.5~2.5 mm², Strip length 10...11mm				
Output Connector		22/40/75W: Terminal, 6-pole (LED+/LED-/GND/MTP+/DALI*2), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm 130W: Terminal, 9-pole (EQUI/Space*2/LED+/LED-/MTP/GND/DALI*2), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm 170W: Terminal, 10-pole (EQUI/Space*2/LED+/LED-/MTP/GND/Space/DALI*2), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm				
Environment						
Ambient Temperature	Operating	-40°C to +55°C				
	Storage	-40°C to +85°C				
Maximum Case Temperature		+85°C	+90°C			
Environmental Locations		IP20				

Applications

LED Streetlight | Area Lighting | Tunnel Lighting

EUCI BASIC

- Wireless configuration interface via NFC
- Autonomous dimming includes three “Smart Timer Dim” operation with Fixed Timer, Midnight Centric Timer, and Ratio Rescale Timer
- High surge immunity protection (10 kV /6 kV)
- Design and fix for luminaires of protection class I and class II
- Meet Zhaga dimension criteria

Model		EUCI-040105GBA	EUCI-075105GBA	EUCI-130105GBA	EUCI-170105GBA
Output					
Output Voltage Range		20-77 V_{DC}	35-150 V_{DC}	60-200 V_{DC}	80-310 V_{DC}
Max. No Load Output Voltage		120 V	210 V	350 V	430 V
Output Power Range		40 W	75 W	130 W	170 W
Adjustable Output Current		200-1050 mA			
Output Current LF Ripple		4% at full load (<100 Hz)			
Input					
Input Voltage Range		198-264 V_{AC}			
Input Frequency Range		47-63 Hz			
Max. Input Current	230 V_{AC}	0.23 A	0.43 A	0.68 A	0.87 A
Efficiency	230 V_{AC}	90% @ 0.52 A / 88% @ 1.05 A	92% @ 0.5 A / 91% @ 1.05 A	93% @ 0.65 A / 92% @ 1.05 A	94% @ 0.55 A / 93% @ 1.05 A
Inrush Current	230 V_{AC}	20 A/250 uS		40 A/250 uS	60 A/250 uS
Power Factor		> 0.95 @ 230 V_{AC}, 100% load			
Total Harmonic Distortion		<8% @ 230 V_{AC}, 100% Load			
Leakage Current		< 0.7 mA peak @ 230 V_{AC}			
Mechanical					
Casing		Plastic, Color : Black			
Dimensions (L x W x D)	mm / in	133 x 77 x 40 / 5.24 x 3.03 x 1.57		150 x 90 x 40 / 5.91 x 3.54 x 1.57	170 x 100 x 40 / 6.69 x 3.94 x 1.57
Unit Weight	kg / lb	0.57 / 126		0.72 / 1.59	0.99 / 2.18
Cooling System		Convection			
Input Connector		Terminal, 2-pole (Line/Neutral/Space/EUQI), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm			
Output and Control Connector		40/75/130W: Terminal, 4-pole (LED+*2/LED-*2), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm 170W: Terminal, 2-pole (LED+/LED-), Conductor 0.5~1.5 mm², Strip length 8.5...9.5mm			
Environment					
Ambient Temperature	Operating	-40°C to +55°C			
	Storage	-40°C to +85°C			
Maximum Case Temperature		+85°C	+90°C		
Environmental Locations		IP20			

Applications

LED Streetlight · Area Lighting · Tunnel Lighting

USCI LITE

- Flexible configurable operating windows
- Autonomous dimming includes three "Smart Timer Dim" operation modes with five independent levels: Fixed Timer, Midnight Centric Timer, and Ratio Rescale Timer
- 6 kV Combi-wave surge rating meet ANSI C82.77-5
- UL LISTED, Class P & Type HL, UL Dry & Damp
- 0 - 10 V dimming available
- 50,000 hours lifetime

Model		USCI-055180GB	USCI-100140GB	USCI-200140GB
Output				
Output Voltage Range		18-52.4 V_{DC}	50-143 V_{DC}	75-190 V_{DC}
Max. No Load Output Voltage		60 Vrms	171 Vrms	230 Vrms
Output Power Range		55 W	100 W	200 W
Adjustable Output Current		520-1800 mA	600-1400 mA	600-1400 mA
Output Current LF Ripple		15% (ripple = peak-average/average) and low frequency (≤120 Hz) content <5% @ Full Load		
Input				
Input Voltage Range		108-305 V_{AC}		
Input Frequency Range		47-63 Hz		
Max. Input Current	120 V_{AC}	0.6 A	1.04 A	2.1 A
Efficiency	277 V_{AC}	90% @ 1.05 A	92.5% @ 0.7 A	93.5% @ 1.05 A
Inrush Current	277 V_{AC}	100 A/150 uS	200 A/150 uS	200 A/150 uS
Power Factor		> 0.9 @ Full Load		
Total Harmonic Distortion		THD < 20% @ Full Load		
Leakage Current		< 0.75 mA rms per UL8750		
Mechanical				
Casing		Steel case, Color: Black		
Dimensions (L x W x D)	mm / in	168 x 60 x 38 / 6.59 x 2.36 x 1.5		240 x 60 x 38 / 9.45 x 2.36 x 1.5
Unit Weight	kg / lb	0.83 / 1.83		1.0 / 2.2
Cooling System		Convection		
Input Cable		L: Black, N: White; UL1316 18AWG solid copper wires Length 300 mm		
Output Cable		Positive: Red, Negative: Blue; NTC/PRG: Orange ; UL1316 18AWG solid copper wires Length 300 mm		
Dimming Cable		Dim(+): Purple, Dim(-): Pink ; UL1316 18AWG solid copper wires Length 300 mm		
Environment				
Ambient Temperature	Operating	-40°C to +55°C		
	Storage	-40°C to +85°C		
Maximum Case Temperature		+85°C		+90°C
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)		
Environmental Locations		Dry & Damp		

Applications

Floodlight Lighting · High Bay Lighting · LED Streetlight · Area Lighting

USC4 LITE

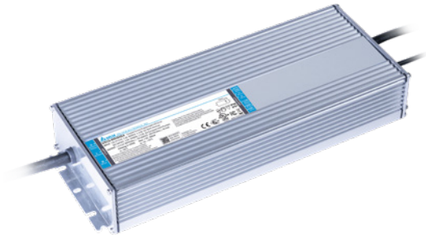
- Wide input voltage range targeting heavy industrial application
- Flexible configurable operating windows
- Autonomous dimming includes three "Smart Timer Dim" operation modes with five independent levels: Fixed Timer, Midnight Centric Timer, and Ratio Rescale Timer
- 6 kV Combi-wave surge rating meet ANSI C82.77-5
- UL LISTED, Class P & Type HL, UL Dry & Damp
- 0-10 V dimming available
- 50,000 hours lifetime

Model		USC4-055180GB	USC4-100140GB	USC4-200140GB
Output				
Output Voltage Range		18-52 V_{DC}	50-143 V_{DC}	75-190 V_{DC}
Max. No Load Output Voltage		60 Vrms	150 Vrms	230 Vrms
Output Power Range		55 W	100 W	200 W
Adjustable Output Current		520-1800 mA	600-1400 mA	600-1400 mA
Output Current LF Ripple		15% (ripple = peak-average/average) and low frequency (≤120 Hz) content <5% @ Full Load		
Input				
Input Voltage Range		254-528 V_{AC}		
Input Frequency Range		47-63 Hz		
Max. Input Current	277 V_{AC}	0.27 A	0.42 A	0.8 A
Efficiency	480 V_{AC}	88.0% @ 1.05 A	92.5% @ 0.7 A	93.5% @ 1.05 A
Inrush Current	480 V_{AC}	200 A/200 uS		
Power Factor		> 0.9 @ Full Load		
Total Harmonic Distortion		THD < 20% @ Full Load		
Leakage Current		< 0.75 mArms per UL8750		
Mechanical				
Casing		Steel case, Color: Black		
Dimensions (L x W x D)	mm / in	167.5 x 60 x 37.5 / 6.59 x 2.36 x 1.5		240 x 60 x 37.5 / 9.45 x 2.36 x 1.5
Unit Weight	kg / lb	0.83 / 1.83		1.15 / 2.53
Cooling System		Convection		
Input Cable		L: Black, N: White; UL1316 18AWG solid copper wires Length 300 mm		
Output Cable		Positive: Red, Negative: Blue; NTC/PRG: Orange ; UL1316 18AWG solid copper wires Length 300 mm		
Dimming Cable		Dim(+): Purple, Dim(-): Pink ; UL1316 18 AWG solid copper wires Length 300 mm		
Environment				
Ambient Temperature	Operating	-40°C to +55°C		
	Storage	-40°C to +85°C		
Maximum Case Temperature		+80°C	+85°C	+90°C
Relative Humidity	Operating	10 to 85% RH (Non-Condensing)		
Environmental Locations		Dry & Damp		

Applications

Floodlight Lighting · High Bay Lighting · LED Streetlight · Area Lighting

USCO PRO



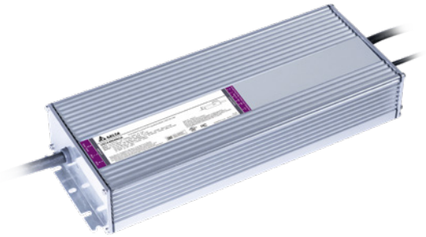
- Wide range constant current design
- Universal AC input voltage 110-277 V_{AC}
- With IP66/IP67 protection from most outdoor applications
- Adjustable constant current level via programmable tool
- Common mode 6 kV and differential mode 6 kV surge immunity
- 0 - 10 V dimming or DALI-2 available

Model		USCO-320210GA	USCO-320280GA	USCO-600400GA
Output				
Output Voltage Range		90-225 V_{DC}	60-152 V_{DC}	150-300 V_{DC}
Max. No Load Output Voltage		250 Vrms	180 Vrms	380 Vrms
Output Power Range		320 W	320 W	600 W
Adjustable Output Current		700-2100 mA	1400-2800 mA	1000-3000 mA
Line Regulation		± 1% (@ 110-277 V_{AC} input)		± 1% (@ 120-277 V_{AC} input)
Load Regulation		±3% (@ Min-Max output voltage)		
Output Current LF Ripple		5% (ripple = peak-average/average) at full load (< 100 Hz)		10%
Input				
Input Voltage Range		99-305 V_{AC}		108-305 V_{AC}
Input Frequency Range		47-63 Hz		
Max. Input Current	110 V_{AC}	3.4 A	3.4 A	5.8 A
Efficiency	230 V_{AC}	94% @ 1.4 A	94% @ 2.1 A	94.8% @ 2.0 A
Inrush Current	230 V_{AC}	180 A/250 uS		15 A
Power Factor		Full Load: > 0.98 @ 110/120 V_{AC}, > 0.95 @ 230 V_{AC}, > 0.92 @ 277 V_{AC} > 50% Load: > 0.90 @ 110/120/230 V_{AC} (277 V_{AC} & 70% Load)		Full Load: > 0.99 @ 120 V_{AC}, > 0.98 @ 230/277 V_{AC} > 50% Load: > 0.95 @ 120/230/277 V_{AC}
Total Harmonic Distortion		THD < 20% with load ≥ 50% at 110/120/230 V_{AC} input and load ≥ 75% at 277 V_{AC} input		THD < 20% with load ≥ 50% at 120/230/277 V_{AC} input
Leakage Current		< 0.7 mA peak @ 277 V_{AC}		
Mechanical				
Casing		Aluminum, Color: Natural		
Dimensions (L x W x D)	mm / in	240 x 100 x 38 / 9.45 x 3.94 x 1.50		308.4 x 116.7 x 50.8 / 12.14 x 4.60 x 2.00
Unit Weight	kg / lb	1.85 / 4.07		1.1 / 2.42
Cooling System		Convection		
Input Cable		Line: Brown, Neutral: Blue, PE: Yellow/Green, Cable Length 300mm		
Output Cable		320W: Positive: Brown, Negative: Blue, NTC/PRG: Black, Cable Length 300mm 600W: Positive: Brown, Negative: Blue, NTC/PRG: Black, Cable Length 280mm		
Dimming Cable		Dim(+): Violet, Dim(-): Gray, +12V: Black/White, Cable Length 300mm		
Environment				
Ambient Temperature	Operating	-40°C to +50°C		-40°C to +45°C for North America -40°C to +55°C for Europe
	Storage	-40°C to +85°C		
Maximum Case Temperature		+90°C		+85°C
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)		
Environmental Locations		IP66 / IP67		

Applications

Floodlight Lighting · High Bay Lighting · LED Streetlight · Area Lighting · Horticulture Lighting

USC4 PRO



- Wide range constant current design
- Universal AC input voltage 110-277 V_{AC}
- With IP66/IP67 protection from most outdoor applications
- Adjustable constant current level via programmable tool
- Common mode 6 kV and differential mode 6 kV surge immunity
- 0 - 10 V dimming or DALI-2 available

Model		USC4-320280GA	USC4-600400GA
Output			
Output Voltage Range		75-152 V_{DC}	150-300 V_{DC}
Max. No Load Output Voltage		170 V	350 V
Output Power Range		320 W	600 W
Adjustable Output Current		1400-2800 mA	1000-3000 mA
Line Regulation		± 1% (@ 277-480 V_{AC} input)	
Load Regulation		±3% (@ Min-Max output voltage)	
Output Current LF Ripple		10% (ripple = peak-average/average) at full load	
Input			
Input Voltage Range		249-528 V_{AC}	
Input Frequency Range		47-63 Hz	
Max. Input Current	277 V_{AC}	1.5 A	2.4 A
Efficiency	277 V_{AC}	91.5% @ 2.8 A	95% @ 2.0 A
Inrush Current	480 V_{AC}	80 A/250 uS	25 A/5 mS
Power Factor		Full Load: > 0.95 @ 277-480 V_{AC} > 50% Load: ≥ 0.90 @ 277-480 V_{AC}	
Total Harmonic Distortion		THD < 20% with load > 50%, 277-480 V_{AC}	
Leakage Current		< 0.75 mA rms @ 480 V_{AC}	
Mechanical			
Casing		Aluminum, Color: Natural	
Dimensions (L x W x D)	mm / in	240 x 100 x 38 / 9.45 x 3.94 x 1.50	308.4 x 116.7 x 50.8 / 12.14 x 4.60 x 2.00
Unit Weight	kg / lb	1.85 / 4.07	3.05 / 6.72
Cooling System		Convection	
Input Cable		320W: Line: Brown, Neutral: Blue, PE: Yellow/Green, Cable Length 300mm 600W: Line: Black, Neutral: White, PE: Yellow/Green, Cable Length 300mm	
Output Cable		Positive: Brown, Negative: Blue, NTC/PRG: Black, Cable Length 300mm	
Dimming Cable		Dim(+): Purple, Dim(-): Gray, +12V: Black/White, Cable Length 300mm	
Environment			
Ambient Temperature	Operating	-40°C to +55°C	
	Storage	-40°C to +85°C	
Maximum Case Temperature		+90°C	+80°C
Relative Humidity	Operating	10 to 90% RH (Non-Condensing)	
Environmental Locations		IP66 / IP67	

Applications

Floodlight Lighting · Sports Lighting · Architectural Lighting · Horticulture Lighting

USCT LINEAR

- Constant current design
- Universal AC input voltage 110-277 V_{AC}
- Class 2 output
- Programmable output current via the Delta interface
- Min. dimming 1% of output current

Model		USCT-030105GA	USCT-050140GA	USCT-080210GA	USCT-040105LA	USCT-040105L2A
Output						
Nominal Output Current		150 - 1050 mA	350 - 1400 mA	700 - 2100 mA	350 - 1050mA	
Output Voltage Range		16 - 54 V_{DC}		20 - 54 V_{DC}	20 - 50 V_{DC}	
Max. No Load Output Voltage		60 V_{DC}				
Output Power Range		0 - 30 W	0 - 50 W	0.5 - 80 W	0 - 40 W / 0 - 40 W(CH1+CH2)	
Line Regulation		± 2%			± 1%	
Load Regulation		± 5%			± 5%	
Output Current Ripple		5% @full load (ripple = (pk-avg)/avg)			5% (ripple = pk-avg/avg) at full load	
Input						
Input Voltage Range		108 - 305 V_{AC}			99 - 305 V_{AC}	
Input Frequency Range		47 - 63 Hz				
Normal Input Current		0.30 A @ 120 - 277 V_{AC}	0.48 A @ 120 - 277 V_{AC}	0.77 A @ 120 - 277 V_{AC}	0.43 - 0.2 A @ 110 - 277 V_{AC}	
Efficiency	277 V_{AC}	89.0%	89.5%	90.0%	90%	
Inrush Current (Apk / 50%-uS @ Cold Start)		Meet NEMA 410			25 A / 250 uS @ 230 V_{AC}	
Power Factor		> 0.95 @ 120 - 277 V_{AC}, full load / 50 Hz			>0.9 @ full load	
Leakage Current		< 0.75 mA @ 277 V_{AC}			<0.75 mA @ 277 V_{AC}	
Mechanical						
Casing		Metal sheet, Color: Natural				
Dimensions (L x W x D)	mm / in	280 x 30 x 25.4 / 11.0 x 1.2 x 1.0		360 x 30 x 25.4 / 14.2 x 1.2 x 1.0	280 x 30 x 25.4 / 11.0 x 1.2 x 1.0	
Unit Weight	kg / lb	0.37 / 0.81		0.56 / 1.23	0.25 / 0.55	
Cooling System		Convection				
Input Connector		Terminal,3-pole (Line/Neutral/PE), Conductor 18-16 AWG, Strip length 9 mm			Terminal, 2&3-pole (Line/Neutral)&(PE/DALI1/DALI2), Conductor 18 - 16 mm², Strip length 8.5...9.5mm	
Output Connector		Terminal, 6-pole (LED+/LED-/NTC_PRG+/NTC_PRG-/DIM+/DIM-)		Terminal, 5-pole (LED+/LED-NTC_PRG/DIM+/DIM-)	Terminal, 4-pole (LED1+/LED1-/LED2+/LED2-), Conductor 18~16 mm², Strip length 8.5...9.5mm	
		Conductor 18-16 AWG, Strip length 9 mm				
Environment						
Ambient Temperature	Operating	-30°C to +50°C				
	Storage	-40°C to +85°C			-30°C to +85°C	
Relative Humidity Operating		10 to 60% RH (Non-Condensing)			10 to 90% RH (Non-Condensing)	
Environmental Locations		Dry and Damp				

Applications

Ceiling Lighting · Pendant Lighting · Round Downlight Lighting · LED Panel Lighting · Hospital · Office

Signage & Refrigeration LED Drivers

Introduction

To stand out in information-saturated environment, appealing signage is key to catching audiences' eye and increasing brand or product awareness. Combining years of experience in powering signage lights with our comprehensive Class 2 product portfolio, Delta LED drivers for signage applications enhance the visibility of the signs and the attractiveness of goods. It can be customized to suit different shape, color, and purpose in signage and refrigeration applications.

Featured Products

USVI S12 / S24

- 12 V / 24 V constant voltage output design
- Universal input voltage 120 - 277 V_{AC}
- Multi-Channel output and independent operating
- UL Class 2 output
- Fixed / Dimming output available

USVI RDL

- 24 V constant voltage output design
- Universal input voltage 120 - 277 V_{AC}
- Design for refrigeration display lighting applications
- Safety-certificated for household & refrigerator appliances

JPVO S12 / S24

- 12 V / 24 V constant voltage output design
- AC input voltage 100/200/242 V_{AC} for Japan application
- PSE Clause 1, meet JIS C 61000-3-2 Class C
- IP67 ingress protection

JPVI S12

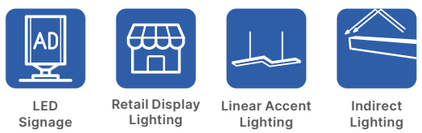
- 12 V constant voltage output design
- AC input voltage 100/200/242 V_{AC} for Japan application
- PSE Clause 1, meet JIS C 61000-3-2 Class C
- 10mm structure elevated to meet indoor wiring regulation
- IP54 Ingress protection

USVI S12

- Constant voltage design
- Universal AC input voltage 120-277 V_{AC}
- Multi-Channel output and independent operating
- Class 2 output
- Wide operating temperature range -40 °C to +55 °C
- Dry & Damp location rated for signage application

Model		USVI-020012FA	USVI-060012FG	USVI-060012DG
Output				
Nominal Output Current		12 V_{DC}		
Output Channel		1		
Max. Output Power		20 W	60 W	
Line Regulation		± 1%		
Load Regulation		± 3%		
Output Current Ripple		< 360 mVp-p	< 1000 mVp-p	
Input				
Input Voltage Range		90 - 305 V_{AC}	108 - 305 V_{AC}	
Input Frequency Range		47 - 63 Hz		
Input Current Max		0.27 A	0.60 A	
Efficiency	277 V_{AC}	80.0%	90.0%	
Inrush Current Peak >50 % Duration		27 A / 250 uS	70 A / 250 uS	
Power Factor @ Max Load		> 0.9	> 0.95	
Leakage Current		< 0.75 mA @ 277 V_{AC}		
Mechanical				
Casing		Plastic, Color: White	Metal sheet, Color: White	
Dimensions (L x W x D)	mm / in	132 x 34 x 25.4 / 5.20 x 1.34 x 1.00	148.2 x 45.6 x 25.4 / 5.83 x 1.80 x 1.00	
Unit Weight	kg / lb	0.18 / 0.40	0.34 / 0.75	
Cooling System		Convection		
Input Connector		Line: Black, Neutral: White, Wire Length 300mm		
Output Connector		Positive: Red, Negative: Blue, Wires Length 300 mm		Dim+: Violet, Dim-: Pink, Positive: Red, Negative: Blue, Wire Length 300 mm
Environment				
Ambient Temperature	Operating	-40°C to +60°C	-40°C to +55°C	
	Storage	-40°C to +85°C		
Relative Humidity Operating		10 to 90% RH (Non-Condensing)		
Environmental Locations		UL Dry & Damp		

Applications

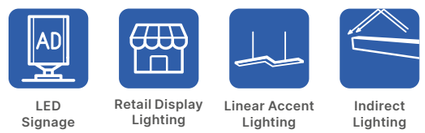


USVI S12

- Constant voltage design
- Universal AC input voltage 120-277 V_{AC}
- Multi-Channel output and independent operating
- Class 2 output
- Wide operating temperature range -40 °C to +55 °C
- Dry & Damp location rated for signage application

Model		USVI-060012FF	USVI-060012FH	USVI-120012FA	USVI-180012FA
Output					
Nominal Output Current		12 V_{DC}			
Output Channel		1		2	3
Max. Output Power		60 W			
Line Regulation		± 1%			
Load Regulation		± 3%			
Output Current Ripple		< 1000 mVp-p			
Input					
Input Voltage Range		108 - 305 V_{AC}			
Input Frequency Range		47 - 63 Hz			
Input Current Max		1.20 A	0.59 A	1.30 A	1.90 A
Efficiency	277 V_{AC}	86.0%	85.7%	88.5%	89.0%
Inrush Current Peak >50 % Duration	120 V_{AC}	40 A / 160 uS			90 A / 120 uS
	277 V_{AC}	105 A / 160 uS	76 A / 205 uS		195 A / 120 uS
Power Factor @ Max Load		> 0.9 @ 120 V_{AC}	> 0.95 @ 120-277 V_{AC}		
Leakage Current		< 0.75 mA @ 277 V_{AC}			
Mechanical					
Casing		Metal sheet, Color: White			
Dimensions (L x W x D)	mm / in	140 x 43 x 230 / 5.50 x 1.70 x 1.18	165.1 x 43 x 30 / 6.50 x 1.70 x 1.18	298.5 x 43 x 30 / 11.75 x 1.70 x 1.18	424.2 x 43 x 30 / 16.70 x 1.70 x 1.18
Unit Weight	kg / lb	0.35 / 0.77	0.38 / 0.841	0.72 / 1.59	1.18 / 2.60
Cooling System		Convection			
Input Connector		Line: Black, Neutral: White, Wire Length 12.5 inch (317 mm)			
Output Connector		Positive: Red, Negative: Black, Wire Length 12.5 inch (317 mm)		Positive: Red, Negative: Red/White, Wire Length 12.5 inch (317 mm) Positive: Blue, Negative: Blue/White, Wire Length 18.5 inch (470 mm)	Positive: Red, Negative: Red/White, Wire Length 12.5 inch (317 mm) Positive: Blue, Negative: Blue/White, Wire Length 18.5 inch (470 mm) Positive: Yellow, Negative:Yellow/White, Wire Length 24.5 inch (623 mm)
Environment					
Ambient Temperature	Operating	-40°C to +55°C			
	Storage	-40°C to +85°C			
Relative Humidity Operating		10 to 90% RH (Non-Condensing)			
Environmental Locations		UL Dry & Damp			

Applications



USVI S24

- Constant voltage design
- Universal AC input voltage 120-277 V_{AC}
- Multi-Channel output and independent operating
- Class 2 output
- Wide operating temperature range -40 °C to +55 °C
- Dry & Damp location rated for signage application

Model		USVI-020024FA	USVI-060024FG	USVI-060024DG	USVI-060024FH
Output					
Nominal Output Current		24 V_{DC}			
Output Channel		1			
Max. Output Power		20 W	60 W		
Line Regulation		± 1%			
Load Regulation		± 3%			
Output Current Ripple		< 720 mVp-p	< 500 mVp-p		< 400 mVp-p
Input					
Input Voltage Range		90 - 305 V_{AC}	108 - 305 V_{AC}		
Input Frequency Range		47 - 63 Hz			
Input Current Max		0.27 A	0.58 A	0.59 A	
Efficiency	277 V_{AC}	80.0%	90.0%		87.0%
Inrush Current Peak >50 % Duration		32 A / 150 uS	70 A / 250 uS		50 A / 250 uS
Power Factor @ Max Load		> 0.9	> 0.95		
Leakage Current		< 0.75 mA @ 277 V_{AC}			
Mechanical					
Casing		Plastic, Color: White	Metal sheet, Color: White		
Dimensions (L x W x D)	mm / in	132 x 34 x 25.4 / 5.20 x 1.34 x 1.00	148.2 x 45.6 x 25.4 / 5.83 x 1.80 x 1.00	241.3 x 43.1 x 30 / 9.50 x 1.70 x 1.18	
Unit Weight	kg / lb	0.18 / 0.40	0.34 / 0.75		0.60 / 1.32
Cooling System		Convection			
Input Connector		Line: Black, Neutral: White, Wire Length 300mm			
Output Connector		Positive: Red, Negative: Blue, Wire Length 300 mm		Dim+: Violet, Dim-: Pink , Positive: Red, Negative: Blue, Wire Length 300 mm	Positive: Red, Negative: Black, Wire Length 300 mm
Environment					
Ambient Temperature	Operating	-40°C to +60°C	-40°C to +55°C		
	Storage	-40°C to +85°C			
Relative Humidity Operating		10 to 90% RH (Non-Condensing)			
Environmental Locations		UL Dry & Damp			

Applications

Refrigerated Display Lighting · LED Signage · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting

USVI S24

- Constant voltage design
- Universal AC input voltage 120-277 V_{AC}
- Multi-Channel output and independent operating
- Class 2 output
- Wide operating temperature range -40 °C to +55 °C
- Dry & Damp location rated for signage application

Model		USVI-100024DG	USVI-100024FG/FE	USVI-200024FA
Output				
Nominal Output Current		24 V_{DC}		
Output Channel		1		2
Max. Output Power		99.6 W		96 W
Line Regulation		± 1%		
Load Regulation		± 3%		
Output Current Ripple		< 500 mVp-p		< 500 mVp-p
Input				
Input Voltage Range		108 - 305 V_{AC}		
Input Frequency Range		47 - 63 Hz		
Input Current Max		0.95 A		1.83 A
Efficiency	277 V_{AC}	89.0%	90.5%	90.5%
Inrush Current Peak >50 % Duration		150 A / 250 uS		170 A / 110 uS
Power Factor @ Max Load		> 0.95		
Leakage Current		< 0.75 mA @ 277 V_{AC}		
Mechanical				
Casing		Metal sheet, Color: White		
Dimensions (L x W x D)	mm / in	241.3 x 43.1 x 25.4 / 9.50 x 1.70 x 1.00		424 x 43.1 x 30 / 16.70 x 17.0 x 1.18
Unit Weight	kg / lb	0.49 / 1.08		1.18 / 2.60
Cooling System		Convection		
Input Connector		Line: Black, Neutral: White, Wire Length 300 mm		Line: Black, Neutral: White, Wire Length 12.5 inch (317 mm)
Output Connector		Dim+: Violet, Dim-:Pink Positive: Red, Negative: Blue, Wire Length 300 mm	Positive: Red, Negative: Blue, Wire Length 300 mm	Positive: Red, Negative: Red/ White, Wire Length 12.5 inch (317 mm) Positive: Blue, Negative: Blue/ White, Wire Length 18.50 inch (470 mm)
Environment				
Ambient Temperature	Operating	-40°C to +55°C		
	Storage	-40°C to +85°C		
Relative Humidity Operating		10 to 90% RH (Non-Condensing)		
Environmental Locations		UL Dry & Damp		

Applications

Refrigerated Display Lighting · LED Signage · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting

USVI RDL

- Constant voltage design
- Universal AC input voltage 120-277 V_{AC}
- Safety-certificated for household and refrigerator appliances
- Class 2 output
- Dry & Damp location rated

Model		USVI-020024FR	USVI-060024FR	USVI-080024FR1	USVI-100024FR1	USVI-240024FR
Output						
Nominal Output Current		24 V_{DC}				
Output Current Range		0.05 - 0.83 A	0.1 - 2.50 A	0.1 - 3.30 A	0.1 - 4.00 A	0.1 - 10.00 A
Max. Output Power		20 W	60 W	80 W	96 W	240 W
Line Regulation		± 1%				
Load Regulation		± 3%				
Output Current Ripple		< 400 mVp-p				
Input						
Input Voltage Range		198 - 264 V_{AC}	108 - 305 V_{AC}			198 - 264 V_{AC}
Input Frequency Range		47 - 63 Hz				
Input Current Max		0.2 A	0.59 A	0.76 A	0.91 A	1.12 A
Efficiency	230 V_{AC}	84.0%	87.0%	90.0%		92.5%
Power Factor @ Max Load		0.5 min	> 0.9			
Leakage Current		< 0.75 mA @ 277 V_{AC}				
Mechanical						
Casing		Plastic, Color: Black	Metal sheet, Color: Black			
Dimensions (L x W x D)	mm / in	132 x 34 x 25.4 / 5.20 x 1.34 x 1.00	241.3 x 43.1 x 30 / 9.50 x 1.70 x 1.18			240 x 70 x 37.5 / 9.45 x 2.75 x 1.48
Unit Weight	kg / lb	0.10 / 0.22	0.6 / 1.3			1.04 / 2.28
Cooling System		Convection				
Input Connector		Line: Black, Neutral: White, Wire Length 300mm				
Output Connector		Positive: Red, Negative: Black, Wires Length 300 mm				
Environment						
Ambient Temperature	Operating	-40°C to +60°C	-40°C to +55°C			
	Storage	-40°C to +85°C				
Relative Humidity Operating		10 to 90% RH (Non-Condensing)				

Applications

Refrigerated Display Lighting · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting

LNE

- Constant voltage design
- Universal AC input voltage 100-277 V_{AC}
- With IP66/IP67 protection from most outdoor application
- High surge immunity(CM 6kV/DM 4kV)
- Adjustable voltage options available

E336604

*AA: UL
CA: CE, ENEC, CCC

Model		LNE-12V320WA□A LNE-12V320WD□A	LNE-24V320WA□A LNE-24V320WD□A	LNE-36V320WA□A LNE-36V320WD□A	LNE-48V320WA□A LNE-48V320WD□A
Output					
Nominal Output Voltage		12 V_{DC}	24 V_{DC}	36 V_{DC}	48 V_{DC}
Output Voltage Range [1]		6-12 V_{DC}	12-24 V_{DC}	18-36 V_{DC}	24-48 V_{DC}
Adjustable Output Voltage [1]		10.8-13.5 V	22.0-27.0 V	33.0-40.0 V	43.0-53.0 V
Max. Output Power		22.5 A	13.4 A	8.9 A	6.7 A
Adjustable Output Current [1]		11.25-22.50 A	6.67-13.40 A	4.45-8.90 A	3.35-6.70 A
Line Regulation		± 0.5%			
Load Regulation		± 2%	± 0.5%		
Output Ripple Voltage		< 150mVp-p		< 250mVp-p	
Input					
Input Voltage Range		90-305 V_{AC} (LNE-□V320W□AA, with UL approval) 90-264 V_{AC} (LNE-□V320W□CA, with ENEC, CE and CCC approval)			
Input Frequency Range		47-63 Hz			
Normal Input Current		3.50 A max. @ 115 V_{AC} 1.65 A max. @ 230 V_{AC} 1.45 A max. @ 277 V_{AC}			
Efficiency		89.5% typ. @ 115 V_{AC} 90.5% typ. @ 230 V_{AC} 91.0% typ. @ 277 V_{AC}	91.5% typ. @ 115 V_{AC} 93.5% typ. @ 230 V_{AC} 94.0% typ. @ 277 V_{AC}	92.5% typ. @ 115 V_{AC} 94.5% typ. @ 230 V_{AC} 94.5% typ. @ 277 V_{AC}	89.5% typ. @ 115 V_{AC} 90.5% typ. @ 230 V_{AC} 91.0% typ. @ 277 V_{AC}
Max Inrush Current		65 A typ. @ 230 V_{AC}			
Power Factor at 100% load		0.98 typ. @ 115 V_{AC} 0.95 typ. @ 230 V_{AC} 0.92 typ. @ 277 V_{AC}			
Leakage Current		< 0.75 mA @ 277 V_{AC}			
Mechanical					
Casing		Aluminum			
Dimensions (L x W x D)	mm / in	252 x 90 x 43.8 / 9.92 x 3.54 x 1.72			
Unit Weight	kg / lb	1.70 / 3.75			
Cooling System		Convection			
Input Cable		Line: Brown, Neutral: Blue, PE: Green/Yellow (LNE-□V320W□CA) Line: Brown, Neutral: Blue, PE: Green/Yellow(LNE-□V320W□AA)			
Output Cable		Positive: Red, Negative: Black			
Dimming Cable		Positive: White, Negative: Blue			
Environment					
Ambient Temperature	Operating	-40°C to +70°C			
	Storage	-40°C to +85°C			
Relative Humidity Operating		5 to 95% RH (Non-Condensing)			

1) For LNE-□V320WA□A package type only

Applications

Refrigerated Display Lighting · LED Signage · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting · Horticulture Lighting

LNE

- Constant voltage design
- Universal AC input voltage 100-277 V_{AC}
- With IP66/IP67 protection from most outdoor application
- High surge immunity(CM 6kV/DM 4kV)
- Adjustable voltage options available

Model		LNE-24V600WBGA	LNE-36V600WBGA	LNE-48V600WBGA	LNE-54V600WBGA
Output					
Nominal Output Voltage		24 V_{DC}	36 V_{DC}	48 V_{DC}	54 V_{DC}
Output Voltage Range		12-24 V_{DC}	18-36 V_{DC}	24-48 V_{DC}	27-54 V_{DC}
Max. Output Power		25.0 A	16.7 A	12.5 A	11.11 A
Line Regulation		± 0.5%			
Load Regulation		± 1%			
Output Ripple Voltage		< 150mVp-p	< 250mVp-p		< 300mVp-p
Input					
Input Voltage Range		100-277 V_{AC}			
Input Frequency Range		47-63 Hz			
Normal Input Current		7.0 A max. @ 120 V_{AC} 3.3 A max. @ 230 V_{AC} 2.9 A max. @ 277 V_{AC}			
Efficiency		95.0% typ. @ 230 V_{AC} 95.0% typ. @ 277 V_{AC}	95.5% typ. @ 230 V_{AC} 95.5% typ. @ 277 V_{AC}	96.0% typ. @ 230 V_{AC} 96.0% typ. @ 277 V_{AC}	96.0% typ. @ 230 V_{AC} 96.0% typ. @ 277 V_{AC}
Max Inrush Current		65 A typ. @ 230 V_{AC}			
Power Factor at 100% load		0.98 typ. @ 120 V_{AC} 0.95 typ. @ 230 V_{AC} 0.93 typ. @ 277 V_{AC}			
Leakage Current		< 0.75 mA @ 277 V_{AC}			
Mechanical					
Casing		Aluminum			
Dimensions (L x W x D)	mm / in	307.5 x 114.3 x 50.8 / 12.11 x 4.50 x 2.00			
Unit Weight	kg / lb	3.15 / 6.94			
Cooling System		Convection			
Input Cable		Line: Brown, Neutral: Blue, PE: Green/Yellow			
Output Cable		Positive: Red, Negative: Black			
5V Standby & Remote Control		PSON/OFF: Blue, GND: Black, +5VSB: Brown			
Environment					
Ambient Temperature	Operating	-40°C to +70°C			
	Storage	-40°C to +85°C			
Relative Humidity Operating		5 to 95% RH (Non-Condensing)			

Applications

Refrigerated Display Lighting · LED Signage · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting · Horticulture Lighting

JPVO S12

- Constant voltage design
- Meet JIS C 61000-3-2 Class C
- Meets CISPR J15
- Wide operating temperature range -40°C to 55°C
- IP67 ingress protection

Model		JPVO-030012FA	JPVO-060012FA	JPVO-100012FA	JPVO-150012FA
Output					
Nominal Output Voltage		12 V_{DC}			
Output Current Range		0.1 - 2.5 A	0.1 - 5.0 A	0.1 - 8.3 A	0.1 - 12.5 A
Max. Output Power		30 W	60 W	100 W	150 W
Line Regulation		± 1%			
Load Regulation		± 5%			
Output Ripple Voltage		<500mVp-p			
Input					
Input Voltage Range		90-266 V_{AC}			
Input Frequency Range		47-63 Hz			
Normal Input Current		0.37 A @ 100 V_{AC} 0.18 A @ 200 V_{AC} 0.16 A @ 242 V_{AC}	0.72 A @ 100 V_{AC} 0.35 A @ 200 V_{AC} 0.30 A @ 242 V_{AC}	1.20 A @ 100 V_{AC} 0.60 A @ 200 V_{AC} 0.50 A @ 242 V_{AC}	1.70 A @ 100 V_{AC} 0.85 A @ 200 V_{AC} 0.70 A @ 242 V_{AC}
Efficiency		82.9% @ 100 V_{AC} 85.3% @ 200 V_{AC} 85.1% @ 242 V_{AC}	82.4% @ 100 V_{AC} 84.8% @ 200 V_{AC} 85.2% @ 242 V_{AC}	87.9% @ 100 V_{AC} 91.3% @ 200 V_{AC} 91.5% @ 242 V_{AC}	88.1% @ 100 V_{AC} 91.8% @ 200 V_{AC} 91.7% @ 242 V_{AC}
Max Inrush Current		25 A @ 100 V_{AC} and 60 A @ 242 V_{AC} at cold start		35 A @ 100 V_{AC} and 80 A @ 242 V_{AC} at cold start	40 A @ 100 V_{AC} and 90 A @ 242 V_{AC} at cold start
Power Factor at 100% load		> 0.90 @ full load			
Leakage Current		< 0.7 mA			
Mechanical					
Casing		Aluminum, Color : Natural			
Dimensions (L x W x D)	mm / in	220 x 60 x 34 / 8.66 x 2.36 x 1.34		240 x 60 x 34 / 9.45 x 2.36 x 1.34	280 x 70 x 37.5 / 11.02 x 2.76 x 1.48
Unit Weight	kg / lb	0.75 / 1.65		0.81 / 1.79	1.25 / 2.76
Cooling System		Convection			
Input Cable		Rubber cable(PNCTF type), Line: Black, Neutral: White, PE: Green/Yellow, cable length 160 mm			
Output Cable		Rubber cable(SJOW type), Positive: Red, Negative: Black, cable length 160 mm			
Environment					
Ambient Temperature	Operating	-40°C to +55°C			
	Storage	-40°C to +85°C			
Relative Humidity Operating		10 to 90% RH (Non-Condensing)			

Applications

LED Signage · Retail Display Lighting · Linear Accent Lighting · Landscape Lighting

JPVO S24

- Constant voltage design
- Wide operating temperature range (-40°C to +55°C)
- IP67 waterproof rating for outdoor use
- Enhanced short-circuit protection against fire

Model		JPVO-030024FB	JPVO-060024FB	JPVO-100024FB	JPVO-150024FB
Output					
Nominal Output Voltage		24 V_{DC}			
Output Current Range		0.1 - 1.25 A	0.1 - 2.5 A	0.1 - 4.17 A	0.1 - 6.25 A
Max. Output Power		30 W	60 W	100 W	150 W
Line Regulation		± 1%			
Load Regulation		± 5%			
Output Ripple Voltage		<400mVp-p			
Input					
Input Voltage Range		90-266 V_{AC}			
Input Frequency Range		47-63 Hz			
Normal Input Current		0.35 A @ 100 V_{AC} 0.18 A @ 200 V_{AC} 0.15 A @ 242 V_{AC}	0.70 A @ 100 V_{AC} 0.35 A @ 200 V_{AC} 0.30 A @ 242 V_{AC}	1.15 A @ 100 V_{AC} 0.57 A @ 200 V_{AC} 0.48 A @ 242 V_{AC}	1.67 A @ 100 V_{AC} 0.83 A @ 200 V_{AC} 0.69 A @ 242 V_{AC}
Efficiency		85.7% @ 100 V_{AC} 87.7% @ 200 V_{AC} 87.7% @ 242 V_{AC}	85.5% @ 100 V_{AC} 88.3% @ 200 V_{AC} 88.6% @ 242 V_{AC}	88.3% @ 100 V_{AC} 91.0% @ 200 V_{AC} 91.2% @ 242 V_{AC}	90.2% @ 100 V_{AC} 92.3% @ 200 V_{AC} 92.5% @ 242 V_{AC}
Max Inrush Current		30 A @ 100 V_{AC} and 60 A @ 242 V_{AC} at cold start		35 A @ 100 V_{AC} and 80 A @ 242 V_{AC} at cold start	40 A @ 100 V_{AC} and 90 A @ 242 V_{AC} at cold start
Power Factor at 100% load		> 0.95 @ full load			
Leakage Current		< 0.7 mA			
Mechanical					
Casing		Aluminum, Color : Natural			
Dimensions (L x W x D)	mm / in	200 x 60 x 44.5 / 7.87 x 2.36 x 1.75		220 x 60 x 34 / 8.66 x 2.36 x 1.34	240 x 60 x 44.5 / 9.45 x 2.36 x 1.75
Unit Weight	kg / lb	0.67 / 1.48		0.74 / 1.63	0.825 / 1.82
Cooling System		Convection			
Input Cable		Rubber cable (PNCTF type), Line: Black, Neutral: White, PE: Green/Yellow, cable length 150mm			
Output Cable		Rubber cable (SJOW type), Positive: Red, Negative: Black, cable length 150mm			
Environment					
Ambient Temperature	Operating	-40°C to +55°C			
	Storage	-40°C to +85°C			
Relative Humidity Operating		10 to 90% RH (Non-Condensing)			

Applications

LED Signage · Retail Display Lighting · Linear Accent Lighting · Landscape Lighting

JPVI S12

- Constant voltage design
- Meet JIS C 61000-3-2 Class C
- Meets CISPR J15
- 10mm structure elevated to meet indoor wiring regulation
- IP54 Ingress protection

Model		JPVI-020012FA	JPVI-060012FK	JPVI-100012FK	JPVI-150012FK
Output					
Nominal Output Voltage		12 V_{DC}			
Output Current Range		0.1 - 1.7 A	0.1 - 5.0 A	0.1 - 8.3 A	0.1 - 12.5 A
Max. Output Power		20 W	60 W	100 W	150 W
Line Regulation		± 1%			
Load Regulation		± 5%			
Output Ripple Voltage		<360 mVp-p	<500 mVp-p	<500 mVp-p	<500 mVp-p
Input					
Input Voltage Range		90-266 V_{AC}			
Input Frequency Range		47-63 Hz			
Normal Input Current		0.24 A @ 100 V_{AC} 0.12 A @ 200 V_{AC} 0.10 A @ 242 V_{AC}	0.72 A @ 100 V_{AC} 0.36 A @ 200 V_{AC} 0.30 A @ 242 V_{AC}	1.20 A @ 100 V_{AC} 0.60 A @ 200 V_{AC} 0.50 A @ 242 V_{AC}	1.70 A @ 100 V_{AC} 0.85 A @ 200 V_{AC} 0.70 A @ 242 V_{AC}
Efficiency		83.0% @ 100 V_{AC} 82.0% @ 200 V_{AC} 82.0% @ 242 V_{AC}	82.0% @ 100 V_{AC} 85.7% @ 200 V_{AC} 85.8% @ 242 V_{AC}	87.4% @ 100 V_{AC} 90.8% @ 200 V_{AC} 91.1% @ 242 V_{AC}	87.8% @ 100 V_{AC} 91.1% @ 200 V_{AC} 91.5% @ 242 V_{AC}
Max Inrush Current		27 A / 250 uS	25 A @ 100 V_{AC} and 60 A @ 242 V_{AC} at cold start	35 A @ 100 V_{AC} and 80 A @ 242 V_{AC} at cold start	40 A @ 100 V_{AC} and 90 A @ 242 V_{AC} at cold start
Power Factor		> 0.9 @ full load			
Leakage Current		< 0.7 mA			
Mechanical					
Casing		Plastic	Metal Sheet		
Dimensions (L x W x D)	mm / in	132 x 34 x 25.4 / 5.20 x 1.34 x 1.00	241.3 x 43 x 40.5 / 9.50 x 1.69 x 1.59	241.3 x 60 x 40.5 / 9.50 x 2.36 x 1.59	280 x 60 x 40.5 / 11.02 x 2.36 x 1.59
Unit Weight	kg / lb	0.18 / 0.40	0.55 / 1.21	0.77 / 1.70	0.96 / 2.12
Cooling System		Convection			
Input Cable		Line: Black, Neutral: White, Wires Length 300 mm			
Output Cable		Positive: Red Negative: Blue Wires length 300mm	Positive: Red, Negative: Black, Wires length 300mm		
Environment					
Ambient Temperature	Operating	-10°C to +60°C	-10°C to +40°C	-10°C to +40°C	-10°C to +40°C
	Storage	-40°C to +85°C			
Relative Humidity Operating	Operating	10 to 90% RH (Non-Condensing)			
	Storage	5 to 95% RH (Non-Condensing)			
Ingress Protection Classification		IP54			

Applications

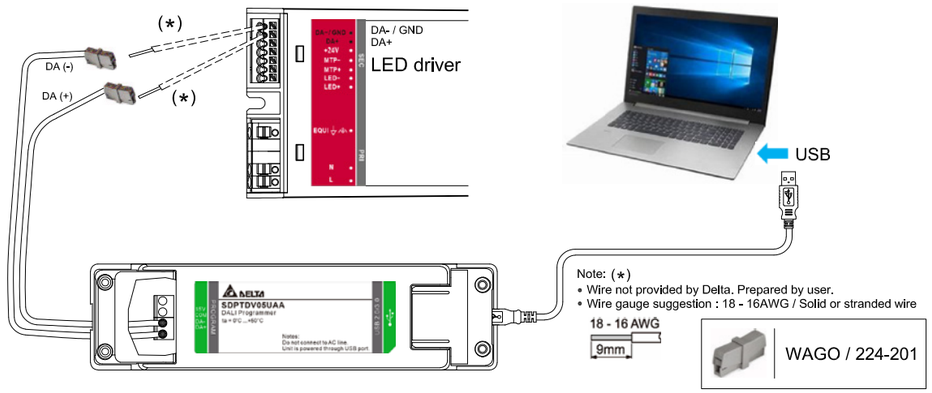
LED Signage · Retail Display Lighting · Linear Accent Lighting · Indirect Lighting

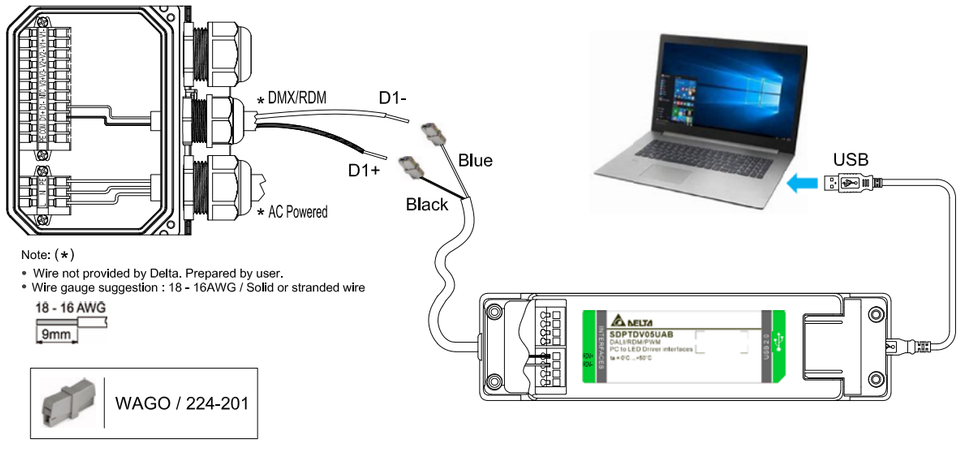
Programming Tools

SDPTDV05UAC

SDPTDV05UAC is a multi-interface kit consist of DALI and DMX/RDM. This kit can be used as a controller for setting and querying standard DALI and DMX/RDM commands through GUI software. It can also be used as a programming tool similar to PTDV05UB. Simply connect to LED driver via DALI or DMX/RDM (not support in SDPTDV05UAA) for reading and writing various setting parameters.

- Build-in DALI bus power supply for up to 50mA (around 25 DALI control gears)
- The DALI and DMX/RDM interfaces are polarity sensitive, and the LED driver must be powered from the external AC power supply during control and programming.

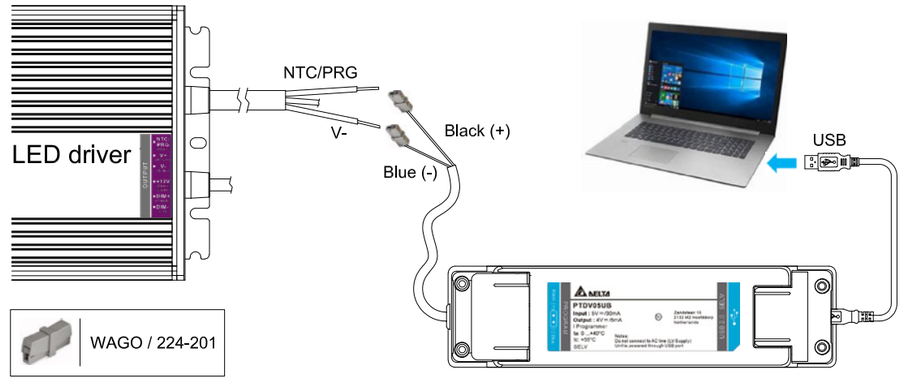




PTDV05UB

PTDV05UB is a custom designed two wired programming tool used for reading and writing various setting parameters, this is one of GUI software supported interfaces called “iProgramming”.

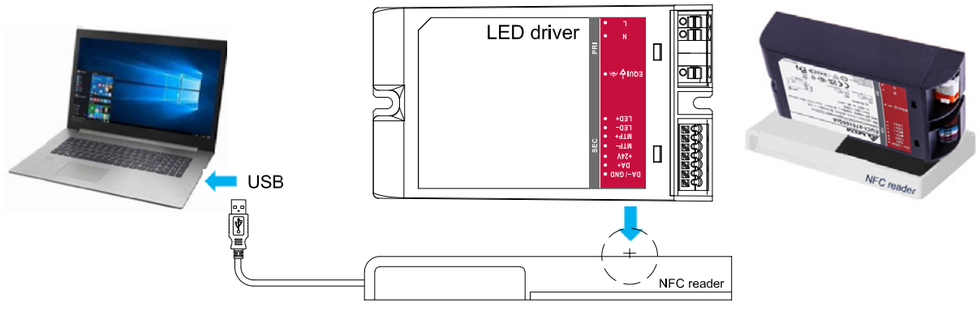
- Simple two wired touch and program
- No AC mains power on is needed for LED driver



CPR30-USB & ISC.PRH101-USB

CPR30-USB and ISC.PRH101-USB are NFC reader/writer manufactured by FEIG Electronics. Both supported by GUI software for reading and writing various setting parameters.

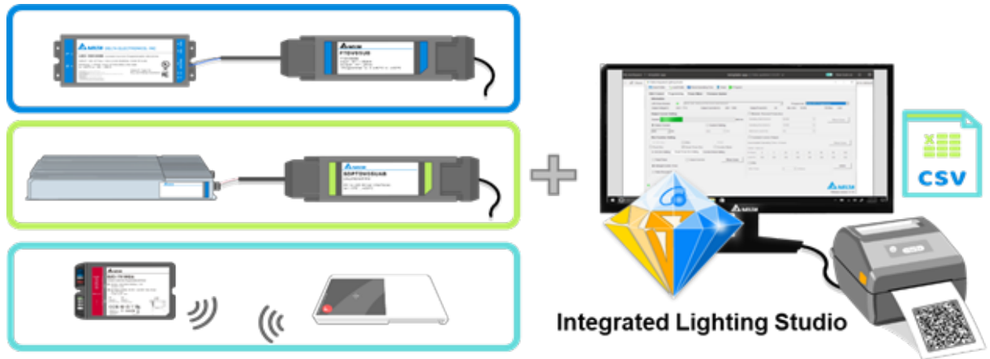
- No wiring to LED driver is needed
- No AC mains power on is needed for LED driver



GUI Software – Integrated Lighting Studio

The Integrated Lighting Studio (ILS) consist of four major functions: DALI Control,Programming, Power Meter and Firmware Update. All functions are integrated in one single GUI to ease the design efforts for evaluating Delta LED drivers. The executable GUI and user manual can be downloaded from www.deltaww.com/ILS. The introduction video can be found in https://youtu.be/AhyG_HoLWwE.

- DALI Control supports all DALI-2 command for Device Type of DT6 and DT8
- Programming supports output current setting, dimming mode setting and varied protection functions, the Zebra label printer is supported meanwhile csv file will be generated for data logging
- Power Meter is based on IEC 62386 part 252
- Firmware Update for DALI-2 models (support only EUCI LITE and EUCI PREMIUM)



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Asia

Delta Electronics, Inc.

3 Tungyuan Road, Chungli Industrial Zone,
Taoyuan County 32063, Taiwan, R.O.C.
TEL: +886 3 452 6107
FAX: +886 3 452 7314

Delta Electronics (Shanghai) Co., Ltd China Headquarters

No. 182 Minyu Road, Pudong,
Shanghai, P.R.C. 201209
TEL: +86 21 6872 3988
FAX: +86 21 6872 3996

Delta Electronics (Thailand) PCL.

909 Soi 9, Moo 4, Bangpoo Industrial Es-
tate (E.P.Z.), Pattana 1 Rd., T. Phrakasa, A. Muang,
Samutprakarn 10280, Thailand
TEL: +66 2 709 2800
FAX: +66 2 709 2827

Delta Electronics India Pvt. Ltd.

Plot No. 43, Sector - 35, HSIIDC,
Gurgaon, Haryana 122001
TEL: +91 124 4874 900
+91 124 4169 040
FAX: +91 124 4874 945

Delta Electronics (Japan), Inc.

2-1-14 Minato-ku Shibadaimon,
Tokyo, 105-0012, Japan
TEL: +81 3 5733 1111
FAX: +81 3 5733 1211

Delta Electronics (Korea), Inc.

1504, Byucksan Digital Valley 6-Cha,
Gasan-dong, Geumcheon-gu, Seoul,
153-704, Korea
TEL: +82 2 515 5303
+82 2 515 5305
FAX: +82 2 515 5302

Delta Electronics (Australia) Pty Ltd

20-21, 45 Normanby Rd.
Nothing Hill, VIC 3168, Australia
TEL: +61 9543 3720
FAX: +61 9544 0606

Delta Energy Systems (Singapore) Pte Ltd

4 Kaki Bukit Avenue 1
#05-04, Singapore 417939
TEL: +65 6747 5155
FAX: +65 6744 9228

North America

Delta Electronics (Americas) Ltd. North American Headquarters

46101 Fremont Blvd.
Fremont, CA 94538, U.S.A.
TEL: +1 510 668 5100
FAX: +1 510 668 0680

Central & South America

Delta Electronics International Mexico S.A. de C.V.

Centrum Park, Av. Gustavo Baz Prada 309
Edificio E Planta Baja, Col. La Loma, C.P.
54030 Tlalnepantla, Estado de México
TEL: +52 55 3603 9200

Delta Electronics (Brasil) Ltda

Estrada Velha Rio São Paulo, 5300–
Eugênio de Melo, 12247-001-São José dos
Campos-SP- Brasil
TEL: +55 12 3932 2300

Europe

Delta Electronics (Netherlands) B.V. EMEA Headquarters

Zandsteen 15
2132 MZ Hoofddorp, The Netherlands
TEL: +31 20 800 3900

Automotive Campus 260
5708 JZ Helmond, The Netherlands
TEL: +31 40 800 3900

Delta Greentech Elektronik (Turkey)

Şerifali Mah. Hendem Cad. Kule Sok. No: 16-A,
Ümraniye, İstanbul, Turkey
TEL: +90 216 499 99 10
FAX: +90 216 499 80 70

www.DeltaPSU.com

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