



LED Driver for Stadium Lighting

Arena Sport Series



| 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
- **Innertek**



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



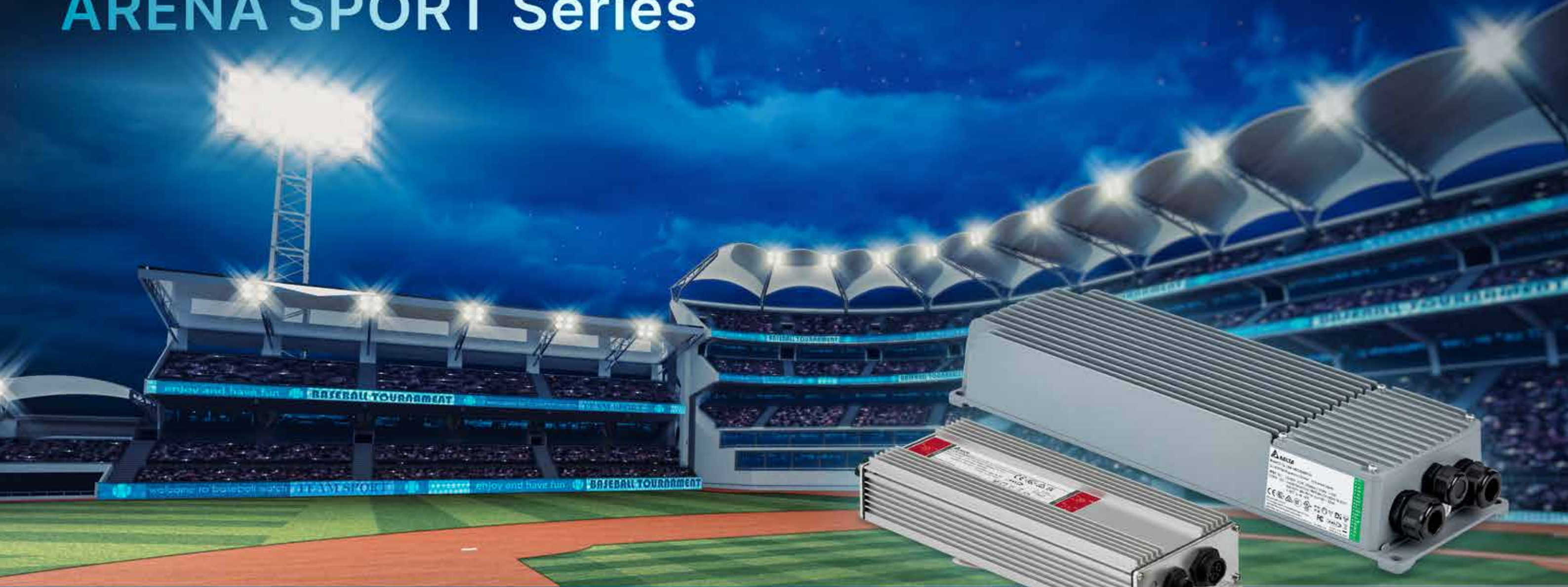
Green Energy

| 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.



LED Driver ARENA SPORT Series



Versatile, Robust and Configurable LED Drivers for Stadium Lighting

For sustainability and environmental friendliness, businesses pursue energy efficiency and cost-saving methods. Enabling high energy efficiency in terms of lumens per watt, Delta ARENA SPORT LED drivers reduce the energy cost of outdoor and 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.



Smart Light Effect



Energy Saving



Minimum Dimming



Simplified Installation



Robust Design
(IP66)



High Reliability

ARENA SPORT LED Drivers



Low System Complexity

- Easy to install, retaining high accuracy in specifications and lifetimes for lower total cost ownership
- Wider adjustment of lighting levels from 0.1% to 100% (DALI) and 0.4% to 100% (DMX)
- Flexible installation with up to 300 Meter remote control distance



Unbeatable Quality

- Ultimate robustness, offering peace of mind and lower maintenance costs
- Very low peak-to-peak (<1.0) to mitigate high frequency and invisible flicker
- Consistent waterproof performance through the lifecycle



Best Portfolio

- Right lighting solution for every sport venue
- Solutions available with DALI-2 & D4i certified and DMX/RDM protocols
- Provides simple and precise programmable output current for every sport lighting application

Single Channel		
		
Output Power: 600 W	Output Power: 600 W	
Output Current: 700-2,000 mA	Output Current: 700-2,000 mA	
Dimming Control: DALI-2 & D4i or DMX/RDM	Dimming Control: DALI-2 & D4i or DMX/RDM	
Multi-Channel		
		
Output Power: 1,000 W / 1,500 W	Output Power: 1,400 W / 2,100 W	Output Power: 1,200 W / 1,650 W / 1,800 W
Output Current: 700-2,000 mA	Output Current: 700-2,000 mA	Output Current: 700-2,000 mA
Dimming Control: DALI-2 or DMX/RDM	Dimming Control: DALI-2 & D4i or DMX/RDM	Dimming Control: 2 in 1 (DALI-2 & D4i and DMX/RDM)

Main Specifications	EUCO-600200GDA	LNA-600A20AFCDA (EUCO-600200GDD)	EUCO-600200GIA	LNA-600A20AFCFA (EUCO-600200GID)
Input voltage range	198 – 440 V _{AC}			
Output voltage	200 - 550 V _{DC}			
Output current	700 - 2,000 mA			
Number of output channel	1			
Max power per channel	600 W			
Total output power	600 W			
Efficiency @ 400 V _{AC}	97.5%			
Control method	DMX / RDM Protocol		DALI-2 & D4i Protocol Autonomous dimming	
Output current ripple LF	<1%			
Ambient temperature	-40~+60°C			
Housing	Aluminum casing IP66			
Dimension (L x W x H)	285 x 100 x 49 mm			
Safety	CE, ENEC, RCM	CE, ENEC, RCM, UL, CCC	CE, ENEC, RCM	CE, ENEC, RCM, UL, CCC

Main Specifications	EUCO-1K0140GDA	EUCO-1K0140GLA	EUCO-1K4200GDA	EUCO-1K4200GIA
Input voltage range	198 – 440 V _{AC}			
Output voltage	260 - 500 V _{DC}		150 - 550 V _{DC}	
Output current	500 - 1,400 mA		700 - 2,000 mA	
Number of output channel	2			
Max power per channel	500 W		700 W	
Total output power	1,000 W		1,400 W	
Efficiency @ 400 V _{AC}	96%		97.9%	
Control method	DMX / RDM Protocol	DALI-2 Protocol Autonomous dimming	DMX / RDM Protocol	DALI-2 & D4i Protocol Autonomous dimming
Output current ripple LF	<1%			
Ambient temperature	-40~+50°C			
Housing	Aluminum casing IP66			
Dimension (L x W x H)	500 x 152 x 77 mm			
Safety	CE, ENEC		CE, ENEC, RCM	

Main Specifications	EUCO-1K5140GDA	EUCO-1K5140GLA	EUCO-2K1200GDA	EUCO-2K1200GIA
Input voltage range	198 – 440 V _{AC}			
Output voltage	260 - 500 V _{DC}		250 - 550 V _{DC}	
Output current	500 - 1,400 mA		700 - 2,000 mA	
Number of output channel	3			
Max power per channel	500 W		700 W	
Total output power	1,000 W		2,100 W	
Efficiency @ 400 V _{AC}	96%		97.8%	
Control method	DMX / RDM Protocol	DALI-2 Protocol Autonomous dimming	DMX / RDM Protocol	DALI-2 & D4i Protocol Autonomous dimming
Output current ripple LF	<1%			
Ambient temperature	-40~+50°C			
Housing	Aluminum casing IP66			
Dimension (L x W x H)	500 x 152 x 77 mm			
Safety	CE, ENEC, RCM		CE, ENEC, RCM,UL	

Main Specifications	LNA-1K2B20ABFGB (EUCO-1K2200GCA)	LNA-1K6C20ABFGB (EUCO-1K6200GCA)	LNA-1K8C20ABFGB (EUCO-1K8200GCA)	LNA-1K2D12ABFGB (EUCO-1K2120RCA)
Input voltage range	187 – 528 V _{AC}			
Output voltage	150 - 550 V _{DC}			50 - 370 V _{DC}
Output current	700 - 2,000 mA			
Number of output channel	2	3		4
Max power per channel	600 W	550 W	600 W	300 W
Total output power	1,200 W	1,650 W	1,800 W	1,200 W
Efficiency @ 400 V _{AC}	97%	97.3%	97.5%	97.2%
Control method	2 in 1 DALI-2 & D4i; DMX/RDM protocol / Autonomous dimming			
Output current ripple LF	<1%			
Ambient temperature	-40~+50°C			
Housing	Aluminum casing IP66			
Dimension (L x W x H)	500 x 152 x 77 mm			
Safety	CE, ENEC, RCM, UL, CCC			

Applications

Our LED drivers are designed to comply with major international safety standards, maximizing energy efficiency while reducing operational costs and environmental impact. We also offer LED drivers with a high-efficiency and durable IP66 design, suitable for indoor and outdoor applications.



Sports Stadium



Parking Lot



Harbor Lighting



Airport Lighting



Concert Lighting



Industrial Lighting



Product Selection Guide



Arena Sport Model Numbering

EU	C	O -	XXXW	□	G	□	□
Product Series	Constant Current	Outdoor	Output Power	Output Current	i-Programming	Function D: DMX/RDM I: DALI-2 & D4i L: DALI-2	A - Connector (with NTC) C - Connector (with PE) D - Cable (with PE)

LN	A -	XXXW	□	A	B	□	□	□
LED Driver	Arena Sport	Output Power	No. of Outputs A: 1 channel B: 2 channels C: 3 channels D: 4 channels	Constant Current	Input Voltage B: 187-528 V _{AC} F: 198-440 V _{AC}	C: Cable Programmable via Delta tool F: Connector Programmable via Delta tool	Dimming D: DMX/RDM F: DALI-2 & D4i G: DALI-2 & D4i and DMX/RDM	A: Aluminum type B: Die-casting

Series	Models	Iout (mA)	Pout (W)	Vin (V _{AC})	Dimming Type	Ingress Protection	Safety	Dimensions (L x W x H)
ARENA SPORT DMX/RDM	EUCO-600200GDA	700~2,000	600	220-400	DMX/RDM	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	EUCO-600200GDC	700~2,000	600	220-400	DMX/RDM	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	EUCO-600200GDD	700~2,000	600	220-400	DMX/RDM	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	LNA-600A20AFCD A	700~2,000	600	220-400	DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC	285 x 100 x 49 mm
	EUCO-1K0140GDA	500~1,400	1,000	220-400	DMX/RDM	IP66	CE, ENEC, UKCA	500 x 152 x 77 mm
	EUCO-1K4200GDA	700~2,000	1,400	220-400	DMX/RDM	IP66	CE, ENEC, RCM, UKCA	500 x 152 x 77 mm
	EUCO-1K5140GDA	500~1,400	1,500	220-400	DMX/RDM	IP66	CE, ENEC, UKCA	500 x 152 x 77 mm
	EUCO-2K1200GDA	700~2,000	2,100	220-400	DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA	500 x 152 x 77 mm
ARENA SPORT DALI-2	EUCO-600200GIA	700~2,000	600	220-400	DALI-2/D4i	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	EUCO-600200GIC	700~2,000	600	220-400	DALI-2/D4i	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	EUCO-600200GID	700~2,000	600	220-400	DALI-2/D4i	IP66	CE, ENEC, RCM, UKCA	285 x 100 x 49 mm
	LNA-600A20AFCF A	700~2,000	600	220-400	DALI-2/D4i	IP66	CE, ENEC, UL, RCM, UKCA, CCC	285 x 100 x 49 mm
	EUCO-1K0140GLA	500~1,400	1,000	220-400	DALI-2	IP66	CE, ENEC, UKCA	500 x 152 x 77 mm
	EUCO-1K4200GIA	700~2,000	1,400	220-400	DALI-2/D4i	IP66	CE, ENEC, RCM, UKCA	500 x 152 x 77 mm
	EUCO-1K5140GLA	500~1,400	1,500	220-400	DALI-2	IP66	CE, ENEC, UKCA	500 x 152 x 77 mm
	EUCO-2K1200GIA	700~2,000	2,100	220-400	DALI-2/D4i	IP66	CE, ENEC, UL, RCM, UKCA	500 x 152 x 77 mm
ARENA SPORT DUAL CONTROL	LNA-1K2D12ABFGB	150~1,200	1,200	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC, BIS	500 x 152 x 77 mm
	LNA-1K2B20ABFGB	700~2,000	1,200	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC, BIS	500 x 152 x 77 mm
	LNA-1K6C20ABFGB	700~2,000	1,650	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC, BIS	500 x 152 x 77 mm
	LNA-1K8C20ABFGB	700~2,000	1,800	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC, BIS	500 x 152 x 77 mm
	EUCO-1K2120RCA	150~1,200	1,200	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA, CCC, BIS	500 x 152 x 77 mm
	EUCO-1K2200GCA	700~2,000	1,800	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA	500 x 152 x 77 mm
	EUCO-1K6200GCA	700~2,000	1,650	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA	500 x 152 x 77 mm
	EUCO-1K8200GCA	700~2,000	1,200	208-480	DALI-2/D4i DMX/RDM	IP66	CE, ENEC, UL, RCM, UKCA	500 x 152 x 77 mm

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