



HIGH-POWER CENTRALIZED INTELLIGENT LIGHTING SYSTEM

大功率集控智慧照明系統



阿德豪森照明（广东）有限公司
Adhesion Lighting (Guangdong) Co.,Ltd

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INTRODUCTION

公司簡介



CREATE PROFITES FOR AGENTS
為代理商創造利潤

GENERATE VALUE FOR USERS
為用戶產生價值

SAVE ENERGY FOR THE SOCIETY
為社會節約資源

阿德豪森照明（廣東）有限公司是一家專注于LED功率型照明領域的高新技術企業，在研發與生產方面展現出卓越的創新能力。公司由深耕LED領域逾三十載的行業專家創立，團隊成員累積13年LED照明行業經驗，以前瞻性的技術理念和嚴苛的品質標準，致力于打造高效、穩定且極具競爭力的專業照明解決方案。

公司產品廣泛應用于工業照明、海洋誘漁、體育照明以及極端溫度等特殊環境照明，以卓越的性能和可靠性贏得市場認可。尤其值得一提的是，公司自主研發的三相直流照明系統，被譽為LED功率型照明的巔峰之作。該系統成功實現三相實時平衡，確保LED始終處於恒壓、恒流的最佳供電模式，不僅顯著提升電力安全性，更能有效降低綜合運營成本，樹立行業新標杆。

阿德豪森照明（廣東）有限公司始終秉承技術創新與質量至上的理念，現誠邀全球合作伙伴攜手共進，共同開創LED功率型照明的全新未來！

Adhesion Lighting (Guangdong) Co., Ltd. is a high-tech enterprise specializing in LED high-power lighting, demonstrating outstanding innovation in both research and manufacturing. Founded by an industry expert with over 30 years of experience in LED packaging, and supported by a team with 13 years of expertise in LED lighting, the company is committed to delivering high-performance, stable, and highly competitive lighting solutions through forward-thinking technology and rigorous quality standards. Our products are widely used in industrial lighting, marine fishing attraction, sports lighting, and extreme temperature environments, earning widespread market recognition for their superior performance and reliability. One of our most groundbreaking innovations is the Three-Phase DC Lighting System, hailed as a pinnacle achievement in LED high-power lighting. This cutting-edge system achieves real-time three-phase balance, ensuring constant voltage and current for optimal LED power supply. As a result, it significantly enhances electrical safety while reducing overall operational costs, setting a new industry benchmark. At Adhesion Lighting (Guangdong) Co., Ltd., we uphold a philosophy of technological innovation and uncompromising quality. We warmly invite global partners to join us in shaping the future of LED high-power lighting!

THREE-PHASE DC LIGHTING SYSTEM

三相直流照明系統



Fishery Lighting
漁業照明

Industrial Lighting
工業照明

Stadium Lighting
球場照明

20-500KW三相直流照明供電設備
20-500KW three-phase DC lighting power supply equipment

Extend the life of the luminaire to the limit
極限延長燈具使用壽命

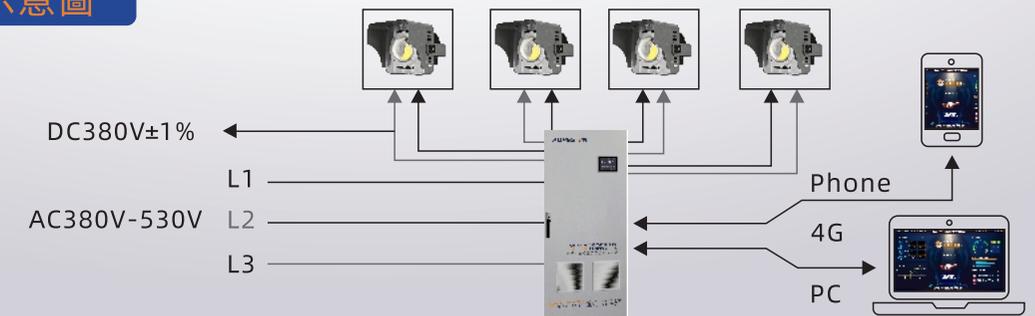
Minimize line loss and wire costs
極限降低線路損耗與線材成本

Comprehensively improve the safety performance of electricity
全面提升用電安全性能

Comprehensively reduce user operating costs
全面降低用戶運營成本

THREE-PHASE DC SYSTEM SCHEMATIC DIAGRAM

三相直流系統示意圖



三相直流智能系統介紹
INTRODUCTION TO THREEPHASE DC INTELLIGENT SYSTEM

Visual Panel Diagram 可視化面板圖



Smart large screen 智能大屏

SAFETY
COST REDUCTION
INTELLIGENCE
安全 降本 智能



- Real-Time Three-Phase Balance Monitoring
- Intelligent Group Management
- Remote Smart Alarm
- Individual Lamp Control
- Accurate Carbon Emission Monitoring
- Remote Control

RETURN TO THE OPTIMAL
POWER SUPPLY MODE 回歸最佳供電模式

PRECISE VOLTAGE
+ CONSTANT CURRENT
real-time three-phase balance
三相實時平衡

精準電壓+恒流

THREE-PHASE DC SYSTEM FUNCTION INTRODUCTION
三相直流系統功能介紹

A benchmark system in the high-power LED lighting industry, with performance that is hard to surpass.

大功率LED照明領域的標桿系統，性能難以超越
本系統代表了大功率LED照明技術的巔峰水平，其卓越的性能與高效的能源利用率將使其成為未來行業標桿。

- 三相實時平衡監控
- 智能分組管理
- 遠程智能報警
- 單燈獨立控制
- 精準碳排放檢測
- 遠程控制

Intelligent power distribution cabinet

智能配電櫃



MAIN FEATURES 主要特點

- High efficiency 高效率**
Reduce energy consumption and losses, meet the requirements of energy saving and emission reduction, and save electricity charges for customers.
減少能耗損耗，符合節能減排要求，為客戶節省電費。
- High power density 高功率密度**
It can save customer space and reduce system costs.
可節省客戶空間，降低系統成本。
- DSP digital control DSP數字控制**
Fewer components, higher environmental stability, higher reliability, and more convenient capacity expansion.
更少的器件，更高的環境穩定性，更高的可靠性，更便捷的擴容。
- DC high-pressure DC output DC高壓直流輸出**
Reduce the number of electromagnetic dry and reduce the number of cables.
減少對電磁幹攏同時大幅度減少電纜的數量。

- Wide input three-phase 380V voltage range, wide output voltage range**
寬輸入三相380V電壓範圍，寬輸出電壓範圍

The generator can work in a balanced manner in real time, improve the power generation efficiency and greatly increase the life of the generator.
發電機可以實時平衡工作，提高發電效率同時可以大幅度增加發電機的壽命。

- Wide operating temperature range 寬工作溫度範圍**

Wide operating temperature range for most harsh operating environments
寬工作溫度範圍滿足大多數嚴酷的工作環境

- Perfect fault self-detection prompts 完善的故障自檢測提示**

Abundant fault detection, convenient for customer maintenance
豐富的故障檢測，方便客戶維護



PERFECT 完美 **SAFETY 安全** **INTELLIGENT 智能** **COST EFFICIENCY 降本**



Fishery Lighting
漁業照明



Industrial Lighting
工業照明



Stadium Lighting
球場照明

Intelligent power distribution cabinet

智能配電櫃



40000W



30000W



20000W

TNZN4W-ZK2.2P

20-500KW三相直流照明供電設備

20-500KW three-phase DC lighting power supply equipment

PARAMETERS OF INTELLIGENT DISTRIBUTION CABINET PRODUCTS

智能配電櫃產品參數指標

Model	TNZN2W-ZK1.1P	TNZN3W-ZK1.2P	TNZN4W-ZK1.3P
Load Power	20000W	30000W	40000W
Cabinet Dimensions (LxWxH*Thickness)	485*500*170mm	485*580*260mm	1200*600*475mm
Cabinet Material	Galvanized sheet with spray coating (standard electrical cabinet process)		
Input Voltage	Three-phase AC 330V ~ 530V		
Output Voltage Range	DC 380V ±1%		
Frequency	45 ~ 65Hz		
Power Factor (PF)	0.99		
Operating Temperature	-40 ~ +50°C		
Efficiency	95%		
Current Distortion (THD)	THD <5%		
Alarm Functions	Input undervoltage / Input overvoltage / Output overvoltage / Output undervoltage / Module		
Operating Temperature	-40 ~ +50°C		
Surge Protection Level	40KV		



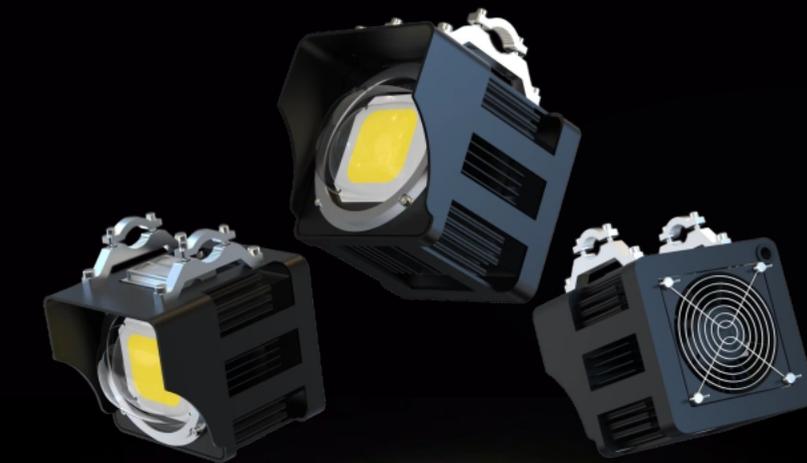
FISHERY LIGHTING APPLICATIONS
漁業照明應用

CE ERP IP67 双85 LM79 LM80

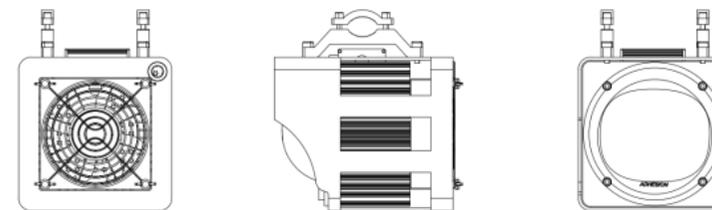
Fish catch is the only criterion for measuring the quality of the fish attracting lights
漁獲是衡量誘魚燈好壞的唯一標準

PRODUCT FEATURES 產品特性

- 全面提升有效照射面積，保證誘魚的效果。
 - 智能化操作，提高操作的便利性的同時提高了生產效率。
 - 極限提高誘魚燈的使用壽命。
 - 極限優化發電機的效率及壽命。
 - 極限保證航行及用電的安全。
- Comprehensively improve the effective irradiation area to ensure the effect of fishing lure.
 - Intelligent operation, improve the convenience of operation and improve production efficiency.
 - Maximize the service life of the fish trap light.
 - Maximize the efficiency and life of your generator.
 - Limit the safety of navigation and electricity.



PRODUCT THREE VIEWS 產品三視圖

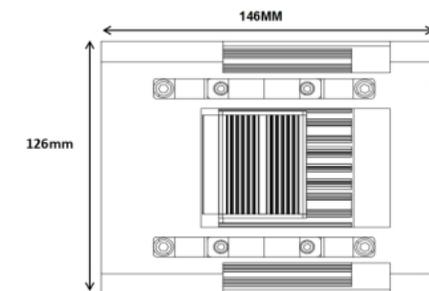


Lightweight

1.75 輕量化
kg

PRODUCT PARAMETERS 產品參數

Power(W)	Voltage(V)	The type of light source	Luminous flux	Temperature	Angle	IP	Control mode	Lens material	weight	authentication	Power supply mode	Wind resistance	Heat dissipation	Warranty
600W	DC380V±1	High-density COB	72000lm	2700-8000K	80X120°	IP67	Intelligent control	Optical	1.68KG	CE	Centralized power supply mode	Front: 0.25 cm²/W Side: 0.28 cm²/W	Active	3 years
800W			1.78KG											



FISHERY LIGHTING APPLICATIONS

漁業照明應用





FISHERY LIGHTING APPLICATIONS
漁業照明應用

Fish catch is the only criterion for measuring the quality of the fish attracting lights
漁獲是衡量誘魚燈好壞的唯一標準

Comprehensively increase the effective fish-attracting area
全面提高有效誘魚面積

Comprehensively enhance navigation and electrical safety
全面提高航行及用電的安全

Fully optimize the efficiency and lifespan of the generator
全面優化發電機的效率及壽命

1 Light Weight 輕量化
2.2g/W

2 Low Wind Resistance 低風阻
0.28cm²/W

3 Great Effect 大效果

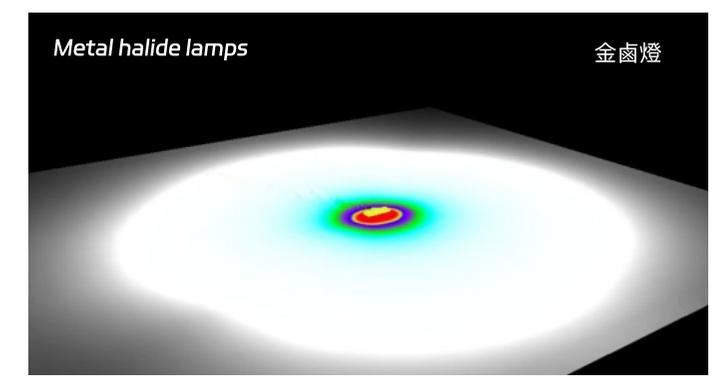
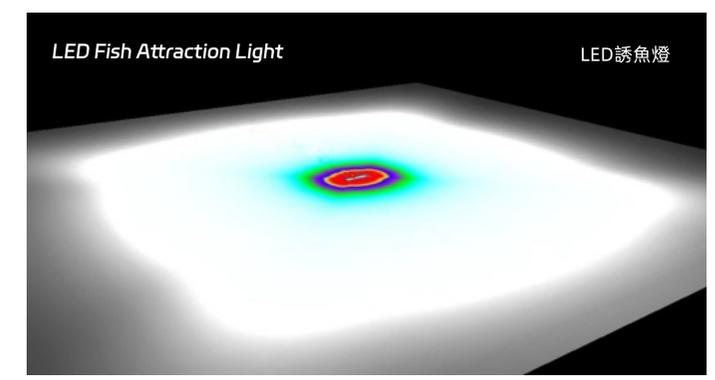
303.7km ² (440KW LED/Lux) LED 誘魚燈照射面積 LED Fish-Attracting Light Illumination Area	133.3km ² (440KW LED/Lux) 金鹵燈照射面積 Metal Halide lamp Illumination Area
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COMPARISON OF 220 METAL HALIDE LAMPS AND LED FISH TRAP LAMPS IN 1 LUX ILLUMINATION RANGE

220個金鹵燈和LED誘魚燈在1lux 照射範圍對比

project Lamps	Comparison of the weight of the entire ship installation (including the weight of the installation wire)	Wind resistance comparison	1Lux illuminance area comparison
Metal halide lamps	218KG	264,000 square centimeters	133,000 square meters
LED Fish Attraction Light	385KG	31,700 square centimeters	303,370 square meters



① The 440KW LED Fishing lure lights has an illumination coverage of 303,370 m² at 1 Lux.
440KW LED誘魚燈在1 Lux時的照射範圍為 303,370 m²

② The 440KW metal halide lamp has an illumination coverage of 133,000 m².
440KW 金鹵燈在1Lux時的照射範圍為133,000 m².



INDUSTRIAL LIGHTING APPLICATIONS
工業照明應用

UP TO **12** YEAR WARRANTY
最高質保12年
ENSURING QUALITY BASED ON EFFECTIVE ILLUMINANCE
在有效照度基礎上談質保



GK01-50/250W



GK02-100/150W

Superior Protection for Extreme Environment

超高防護等級，適應各種極端環境

Efficient Heat Dissipation & Ultra-Long Lifespan

高效散熱與超長使用壽命



INDUSTRIAL LIGHTING APPLICATIONS
工業照明應用

PRODUCT FEATURES 產品特性



INDUSTRIAL LIGHTING APPLICATIONS
工業照明應用

High brightness & Precise Light

高亮度與精準光控能力

PRODUCT PARAMETERS 產品參數

Model	GK01-50W	GK01-100W	GK01-150W/200W/250W
Rated Power	50W	100W	150/200/250W
Product Dimensions	H: 250mm, Shade: 400mm	H: 290mm, Shade: 400mm	H: 340mm, Shade: 400mm
Luminous Efficacy	7000LM	14000LM	21000/28000/35000LM
Model	GK02-100W	GK02-150W	
Rated Power	100W	200W	
Product Dimensions	H: 285mm, Shade: 400mm	H: 285mm, Shade: 400mm	
Luminous Efficacy	14000LM	28000LM	
Power Supply	Custom COB reverse-engineered three-phase balanced isolated DC smart centralized power supply		
Overheat Protection	Reduces power when TC point temperature >105°C, minimum power ≈10%		
Flicker	No flicker, no water ripple, suitable for HD camera shooting		
Color Rendering Index (CRI)	Ra >70 (Ra70-97 customizable)		
LED Junction Temperature		≤110°C	
Lumen Maintenance	>90% over 5 years	Optical Material	High borosilicate optical glass
Color Temperature	3000-6500K	Protection Rating	IP65
Beam Angle	60°/90°/120°	Lifespan	100,000 hours
Optical Material	High borosilicate optical glass	Warranty	5 years for fixtures



STADIUM LIGHTING APPLICATIONS
球場照明應用

MEETS THE REQUIREMENTS OF HIGH-DEFINITION LIVE BROADCAST AND FILMING FOR SPORTS EVENTS

滿足體育賽事直播高清拍攝需求

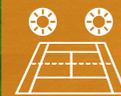


SUITABLE FOR THE SCENE 適用場景



High-Density COB Single-Light Source Packaging – Delivers enhanced clarity and superior visual performance

高密度COB單光源封裝
提供更卓越的清晰度，呈現細膩逼真的視覺效果



STADIUM LIGHTING APPLICATIONS
球場照明應用



STADIUM LIGHTING APPLICATIONS
球場照明應用



Precision Light Distribution – Maximizes light utilization for greater efficiency and effectiveness.

精準配光技術

最大化光能利用率，確保更高效、更均勻的照明體驗。



SUITABLE FOR THE SCENE 適用場景



PRODUCT PARAMETERS 產品參數

Model	TG11-100W	TG11-200W	TG11-400W
Rated Power	100W	200W	400W
Product Dimensions	200mm (L) * 122mm (W) * 122mm (H)	255mm (L) * 235mm (W) * 180mm (H)	380mm (L) * 380mm (W) * 280mm (H)
Product Weight	2.53kg	5.45kg	11.0kg
Total Luminous Flux	12000LM	24000LM	48000LM
Power Supply	Customized three-phase balanced isolated DC smart centralized power supply (COB reverse-engineered)		
Over-Temperature Protection	Reduces power when TC point temperature exceeds 105°C, minimum power ≈10%		
Light Source Output Flicker	Light Source Output Flicker: Flicker-free, no water ripple, suitable for live sports broadcasting.		
Color Rendering Index (CRI)	Ra >70 (Ra70-97 customizable)		
Luminous Flux Maintenance	>90% after 5 years	Design Lifespan	>50,000 hours
Color Temperature	3000-6500K	Operating Temperature	-40 ~ +60°C
Beam Angle	30° / 60° / 90° / 120° / 80*120°	LED Junction Temperature	≤110°C
Optical Material	High borosilicate optical glass	Warranty Period	12 years for fixtures
Protection Rating	Ip67	Light Source Lifespan	100,000 hours



STADIUM LIGHTING APPLICATIONS
球場照明應用



PRODUCT FEATURES 產品特性

高效節能, 卓越光效

全燈效率140-150lm/W, 替代1500W泛光燈, 節能超60%, 5年光衰<10%。

超高防護, 耐用可靠

IP67防水防塵, 高硼矽玻璃鏡片, 耐高溫、高濕、高塵, 長期使用不發黃。

緊湊設計, 高亮精準

輕便小巧, 風阻低, 照度100lm/cm², 光效200lm/kg, 光控精準。

超長壽命, 低維護成本

5年質保, 光通維持率>90%, 顯著降低維護成本。

High Efficiency & Energy Saving, Exceptional Light Output

Overall luminaire efficiency of 140-150 lm/W, replacing 1500W floodlights with over 60% energy savings, and maintaining less than 10% light decay over 5 years.

Superior Protection, Durable & Reliable

IP67-rated waterproof and dustproof, equipped with high-borosilicate glass lenses, resistant to high temperatures, humidity, and dust, ensuring long-term use without yellowing.

Compact Design, High Brightness & Precision

Lightweight and compact with low wind resistance, delivering 100 lm/cm² illuminance and 200 lm/kg efficiency, ensuring precise light control.

Ultra-Long Lifespan, Low Maintenance Costs

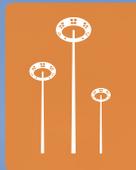
5-year warranty, maintaining over 90% luminous flux, significantly reducing maintenance costs.

SUITABLE FOR THE SCENE 適用場景



PRODUCT PARAMETERS 產品參數

Model	TG04-50W	TG04-100W	TG4-200W
Rated Power	50W	100W	200W
Luminous Flux/W	130LM/W	130LM/W	130LM/W
Beam Angle	60° / 90° / 80*120°	Beam Angle	30°
Power Supply	Customized three-phase balanced isolated DC smart centralized power supply (COB reverse-engineered)		
Over-Temperature Protection	Reduces power when TC point temperature exceeds 105°C, minimum power ≈10%		
Light Source Output Flicker	Light Source Output Flicker: Flicker-free, no water ripple, suitable for live sports broadcasting.		
Color Rendering Index (CRI)	Ra >70 (Ra70-97 customizable)		
Luminous Flux Maintenance	>90% after 5 years	Operating Temperature	-40 ~ +60°C
Color Temperature	3000-6500K	LED Junction Temperature	≤110°C
Optical Material	High borosilicate optical glass	Warranty Period	5 years for fixtures
Protection Rating	Ip65	Light Source Lifespan	100,000 hours



HIGH POLE LIGHTING APPLICATION
高桿照明應用

High pole lamp
高桿燈



TG09

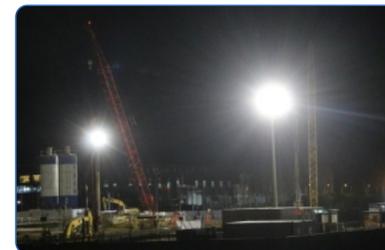
PRODUCT FEATURES 產品特性

- **Ultra-long Lifespan with 12-Year protection Promise and Ultra-low Maintenance Costs**
超長壽命, 12年守護承諾, 超低維護成本
- **Precise Light Control, Minimizing Light Pollution**
精準控光, 減少光污染

TG08



SUITABLE FOR THE SCENE 適用場景



PRODUCT PARAMETERS 產品參數

Model	TG08-100W/400W/1000W	Model	TG9-100W/400W/1000W
Rated Power	100W/400W/1000W	Rated Power	100W/400W/1000W
Total Luminous Flux	130LM/W	Total Luminous Flux	130LM/W
Beam Angle	60° / 90° / 80*120°	Beam Angle	30°
Power Supply	Customized three-phase balanced isolated DC smart centralized power supply (COB reverse-engineered)		
Over-Temperature Protection	Reduces power when TC point temperature exceeds 105°C, minimum power ≈10%		
Light Source Output Flicker	Light Source Output Flicker: Flicker-free, no water ripple, suitable for live sports broadcasting.		
Color Rendering Index (CRI)	Ra >70 (Ra70-97 customizable)		
Luminous Flux Maintenance	>90% after 5 years	Design Lifespan	>50,000 hours
Color Temperature	3000-6500K	Operating Temperature	-40 ~ +60°C
Beam Angle	30° / 60° / 90° / 120° / 80*120°	LED Junction Temperature	≤110°C
Optical Material	High borosilicate optical glass	Warranty Period	5 years for fixtures
Protection Rating	Ip67	Light Source Lifespan	100,000 hours