



# Delta Fishing Light

A Revolutionary Light for Fishing

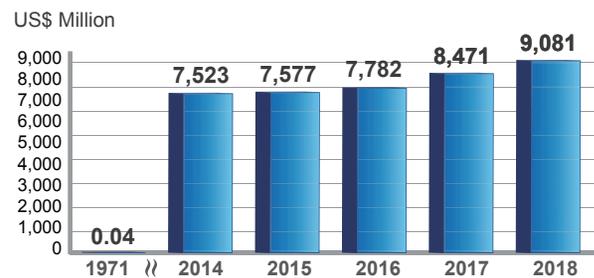
- Saves on Costs
- Enhances Catch Yields
- Withstands Harsh Conditions
- Safer and Healthier





## Worldwide Revenues

Delta continues to delivering strong and stable financial performance, achieving a compound annual growth rate of 30.0% since 1971. Delta's consolidated worldwide group sales revenues in 2018 were US\$ 9.081 billion.



## Milestones

### 1971

- Delta Electronics, Inc. established

### 1983

- Mass production of switching power supplies

### 1988

- Listed on the Taiwan Stock Exchange (code: 2308)
- Mass production of DC brushless fans

### 1992

- Inauguration of the first plant (Dongguan) in China

### 2006

- Inaugurated Delta's Tainan Plant, the first green building in Taiwan certified for all nine indices of Taiwan's EEWL rating system (EEWL Diamond)

### 2007

- Honored with Forbes Asia's Fabulous 50 Award
- Developed the world's first company-wide Green Map with recognition from Green Map System

### 2008

- Listed as a Global Top 100 Low-Carbon Pioneer by CNBC European Business Magazine

### 2011

- Inaugurated Shanghai R&D and Operations Center Building in China (LEED Gold)
- Inaugurated Delta Taoyuan Technology Center, Taiwan (LEED/ EEWL Gold)

### 2012

- Received Taiwan's Industry Innovation Award

### 2015

- Selected for the Chinese Academy of Social Sciences "Top100 China Corporate Social Responsibility" for 3<sup>rd</sup> consecutive year
- Acquired Eltek, a leading provider in telecom power, industrial and datacenter power solutions
- Inaugurated Delta Americas Headquarters
- Inaugurated Delta Taoyuan Plant 5, Taiwan (EEWL/LEED Gold)

### 2016

- Acquired Delta Controls and Loytec, two companies building automation leading

### 2017

- Named as Climate Change Leadership Level for the 2<sup>th</sup> consecutive year
- Named as a Taiwan Top 20 Global Brand for the 8<sup>th</sup> consecutive year
- Acquired a major stake in Vivotek, a maker of surveillance systems, to enhance our smart solutions for buildings.

### 2018

- Selected for the Dow Jones Sustainability™ World Index (DJSI World) for the 8<sup>th</sup> consecutive year

## Power Electronics



Li-ion Battery Cells



48V HV Li-ion Batteries



48V LV Li-ion Batteries (3U Rack)



24V Li-ion Batteries



Energy Storage Cabinets



EMI Filters / Solenoids



Energy Storage System Containers (40ft / 20ft)

## Automation



Machine Vision Systems



Smart Sensors



SCARA Robots



Robot Workstations



Rotary Optical Encoders



Pressure Sensors



Articulated Robots



Production AOI Customized Applications



Temperature Controllers



Power Meters



Production Automation Customized Applications

## Infrastructure



Micro Datacenter



Modular Datacenter



Datacenter Infrastructure Management (DCIM)



Precision Cooling



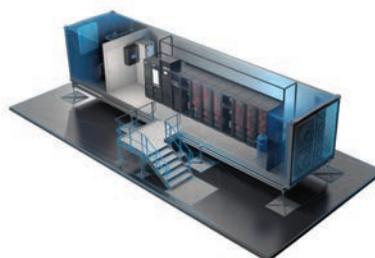
AC Power



Eltek Converged Power Systems



Power Container



Containerized Datacenter



Power Shelf



Racks



Power Distribution Units (PDU)

LED fixture vs. Traditional HID lamp  
LED direct light is more efficient

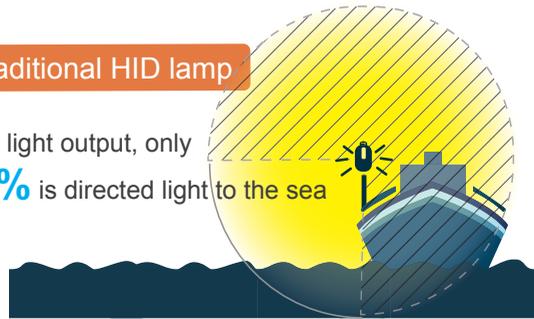
LED fixture

100%  
directed light to the sea

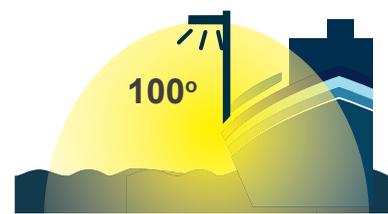
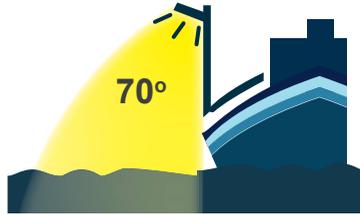
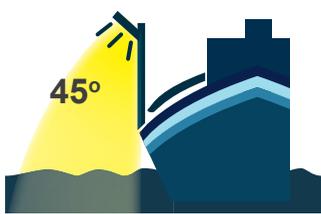


Traditional HID lamp

360° light output, only  
30% is directed light to the sea



Fixture tier angle is adjustable  
Various beam angle choices



LED fishing light cost savings up to 70%

unit: NTD/year



LED 600W light replaces  
2000W traditional HID lamp

Fixture cost savings  
**\$1,500,000**

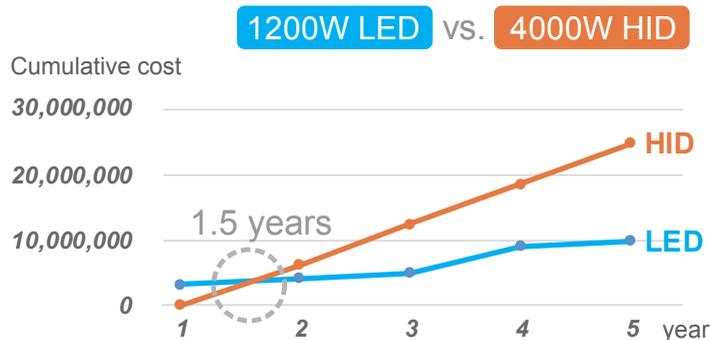
3-year fuel cost savings  
**\$3,804,000**

LED 1200W light replaces  
4000W traditional HID lamp

Fixture cost savings  
**\$5,200,000**

3-year fuel cost savings  
**\$19,846,857**

1.5 years payback



Patented dissipation fan  
Easy installation, Ultra light weight



Professional optical design  
Special spectrum for saury and squid



Saury



Squid

World No.1 power solution provider



High performance



High quality



No high temperature burns  
UV free, prevents skin and eye damage



Passed North America **ANSI C136**  
lighting fixture vibration test



Protects against mechanical  
impacts **IK10** Anti-glass explosion



Protects against  
dust and water - **IP66**



Innovative air cooling system  
Protects against heavy sea waves and anti-salt erosion



100 hrs



148 hrs



## Specifications

	Model name	<b>FLSF600XXXXFT</b>		
	Input voltage	220 Vac (+/-15%)		
	Output lumen (lm)	60,000	66,000	57,000
	Efficiency (lm/W)	100	110	95
	Wattage (W)	600		
	CCT (K)	2,700	6,100	6,100
	Ra	80	80	90
	Beam angle (°)	100D (70D, 40D optional)		
	Operation (°C)	-20 ~ +45		
	IP	IP66		
	Dimensions (mm)	320(L) x 180(W) x 290(H)		
	Weight (Kg)	6.5		

	Model name	<b>FLSFA12R2D1FT</b>		
	Input voltage	220 Vac (+/-15%)		
	Output lumen (lm)	53,000		
	Wattage (W)	1,200		
	LED color	RED, 620nm		
	Beam angle (°)	120		
	Operation (°C)	-20 ~ +45		
	IP	IP66		
	Dimensions (mm)	431(L) x 415(W) x 343(H)		
	Weight (Kg)	11.4		

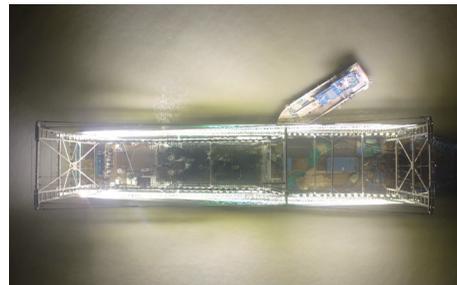
	Model name	<b>FLSFA12xx45FT</b>		
	Input voltage	220 Vac (+/-15%)		
	Output lumen (lm)	120,000		
	Efficiency (lm/W)	100		
	Wattage (W)	1,200		
	LED color (K)	5,000		
	Ra	80		
	Beam angle (°)	45		
	Operation (°C)	-20 ~ +45		
	IP	IP66		
	Dimensions (mm)	431(L) x 415(W) x 343(H)		
	Weight (Kg)	11.4		

## Installation cases

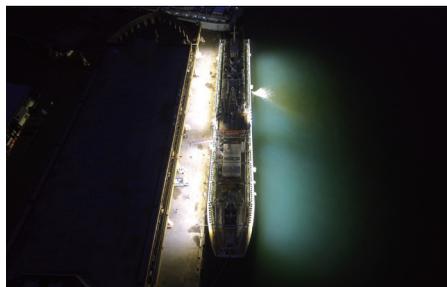
Kaohsiung Man Shuen Fa - squid lights



Shantung - squid lights



Kaohsiung Zi Da Wang - squid lights



Kaohsiung Jia Long - saury lights



Bali - squid lights



# Global Operations



169 Global sales offices

38 Global plant sites

64 Global R&D centers



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