

# **CATALOGUE** SPECIALIZED LIGHTS FOR FISHERY

RANG DONG - ACCOMPANYING FISHERMEN SMART HOME - SMART CITY - SMART FARM



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## LED LIGHTS >>>> IN FISHING INDUSTRY MAKE ULTIMATE TREND

### 1. Optical design specialized for fishing light



Rang Dong's LED light provides higher efficiency than MH light.

### 2. Environment protection



- 1. LED light does not contain mercury
- 2. Starting time: immediately (under 1 second)



1. MH light contains mercury, causing pollution to the environment

2. MH light requires 10-15 minutes to stabilize 3. A time gap of about 10 minutes is required for cooling down before the next operation.

### 3. Safety and no harmfulness for users



Low heat generation; Safe operation No ultraviolet, limiting skin and eye damage. **Protecting fishermen's health** 



Emitting ultraviolet (Bad impact on fishermen's health, such as on skin, hairs and eyes) Causing burns due to high heat generation

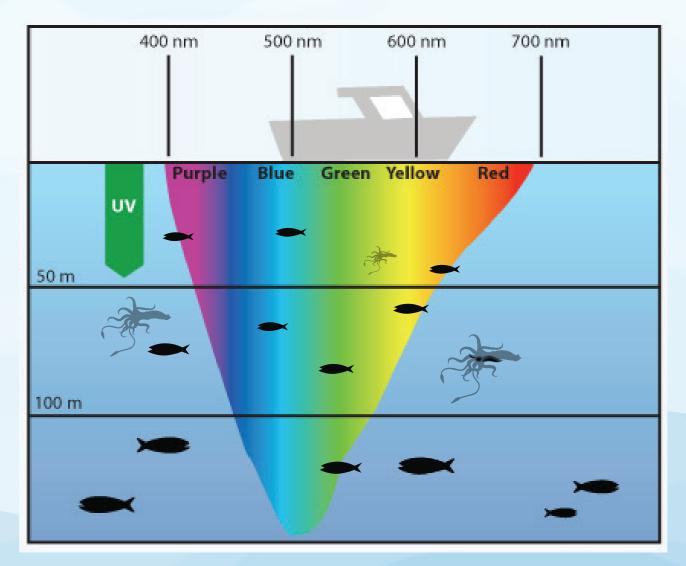
### 4. Specialized lighting spectrum helps improve fishing productivity

The specialized lighting spectrum with multiple choices Raising fishing productivity enables easy fishing for a variety of fish at different depths.





Transmitting light in seawater according to the wavelength of light as described in the picture below.



### 5. Quality of Rang Dong's LED lights

No interference with communication devices on fishing boats



Good mechanical resistance, while MH has fragile glass cover



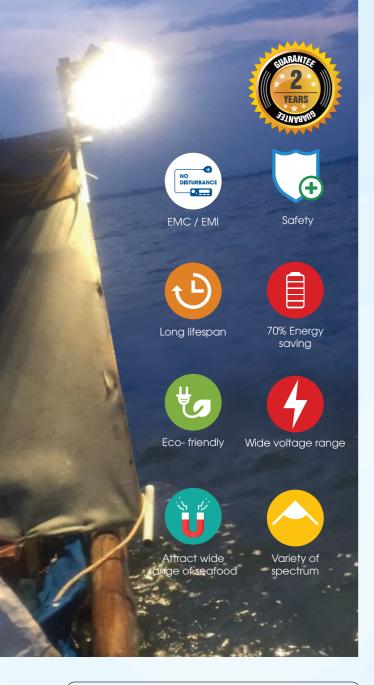
Waterproof and corrosion resistance in sea-salt environment (IP66).



### **6.** Investment efficiency

Investment in 300W and 500W LED lights for replacing MH 1500W

				Product	Product	
Cost	Cost Factor Comparison	Unit	MH 1500W Light	Rang Dong 300W LED Light	Rang Dong 500W LED Light	
	Power consumption	KW/h	80 x 1.5 = 120	80 x 0.3 = 24	80 x 0.5 = 40	
	Average of oil consumption per hour	Litre	120 x 0.265 = 31.8	24 x 0.265 = 6.36	40 x 0.265 = 10.6	
Oil cost	Average of oil consumption per a night	Litre	31.8 x 10 = 318	6.36 x 10 = 63.6	10.6 x 10 = 106	
	Average of oil consumption per a 20-day month	Litre	318 x 20 = 6360	63.6 x 20 = 1272	106 x 20 = 2120	
	Average of oil consumption per a 10-month year	Litre	6360 x 10 = 63600	1272 x 10 = 12720	2120 x 10 = 21200	



- For Underwater Light: Only turn on the light whensubmerged; do not block the heat release vent in the middle of the light
- Carefully read the manuals provided in the Product box before use.

## **VESSEL SIDE LIGHT**

## LED **>>>** FISHING LIGHT



### APPLICATION/USAGE

- Used for catching aquatic/seafood products by lights
- Lighting in the ice room, engine room, area for joint activities aboard...

### ADVANTAGES

- No interference on marine electronic equipment aboard
- Sea salt-resistant corrosion feature for over 10 years
- Brighter, saving up to 70% of energy compared to MH light
- Glass lens with diversified CRI for different fishing grounds and many options for wide, long, and deep projection lenses to attract fish
- Using Samsung's highly efficient specialized LEDs
- No ultraviolet, safe for fishermen
- Trusted by Indonesian and Filipino fishermen

### CAUTION

- MUST use a light protector (PLD: 10-25-40kW) with LED fishing lights
- Install fishing lights at least 0.5 m away from high-pressure light
- ONLY turn on the light when generator has stable running
- Turn off the LED light before turning off the high-pressure light
- Avoid turning on/off the LEDs by turning on/off the generator
- Do not touch the light while in operation
- Make sure the right IP when connecting power supply to ensure water ingress protection and electrical safety.



## POWER Voltage range:

500W

BEAM ANGLE

Voltage range:	100 ÷ 277 Vac
Lumen:	65000 lm
Luminous efficiency:	130 lm/W
CCT:	3000 K/4000K/5000K
Weight:	5 kg
Dimension (LxWxH):	295x220x200 (mm)

Model: DC08 500W

### Model: DC06.V2 500W





### **SPECIFICATIONS**

Voltage range:	170 ÷ 300 V
Lumen:	55000 lm
Luminous efficiency:	110 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	7 kg
Dimension (LxWxH):	540x430x115 (mm)

### Model: DC05 500W





### **SPECIFICATIONS**

Voltage range:	100 ÷ 277V
Lumen:	65000 lm
Luminous efficiency:	130 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	7.2 kg
Dimension (LxWxH):	450x220x145 (mm)

### Model: DC05 400W





### **SPECIFICATIONS**

Voltage range:	100 ÷ 277 AC
Lumen:	52 000 lm
Luminous efficiency:	130 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	6.2 kg
Dimension (LxWxH):	380x220x185 (mm)

### Model: DC05 400W.NA

Model: DC04 400W











**SPECIFICATIONS** 

Voltage range:

Lumen:

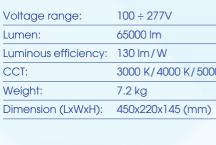
Luminous efficiency:	125 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	6.2 kg
Dimension (LxWxH):	380x220x185 (mm)

100 ÷ 277 AC

50 000 lm

### **SPECIFICATIONS**

Voltage range:	100 ÷ 277 AC
Lumen:	48 000 lm
Luminous efficiency:	120 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	7.5 kg
Dimension (LxWxH):	525x220x175 (mm)



### Model: DC04 300W





### **SPECIFICATIONS**

Voltage range:	100 ÷ 277 AC
Lumen:	39 000 lm
Luminous efficiency:	130 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	5.2 kg
Dimension (LxWxH):	375x220x165 (mm)

### Model: DC06.V2 250W





### **SPECIFICATIONS**

Voltage range:	170 ÷ 300 V
Lumen:	27500 lm
Luminous efficiency:	110 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	4.5 kg
Dimension (LxWxH):	430x280x115 (mm)

# WoterprofilesWoterprofilesOWER200WEAM ANGLE120°BEAM ANGLE90°BEAM ANGLE35°

### **SPECIFICATIONS**

Voltage range:	100 ÷ 277 AC
Lumen:	26000 lm
Luminous efficiency:	130 lm/W
CCT:	3000 K/4000 K/5000 K
Weight:	4 kg
Dimension (LxWxH):	275x220x185 (mm)

## **UNDERWATER LIGHT**





### **SPECIFICATIONS**

Voltage range:	100 ÷ 277 AC
Lumen:	48000 lm
Luminous efficiency:	80 lm/W
Operating depth:	up to 80 m
CCT:	Green/4000 K
Weight:	3.5 kg
Dimming:	10% to 100%
Dimension (LxWxH):	450x102x102 (mm)

Model: TC01 600W

## **SQUID CATCHING LIGHT**

### Model: CM01 50W





### **SPECIFICATIONS**

):12 & 24 VDC
5 000 lm
100 lm/W
4000 K/5000 K/Green
1 kg
135x120x136 (mm)
30000h

## **FISHING LIGHT PROTECTOR**

Model	Voltage	Power	Number of protected lights	Protection voltage	IP ratings	Electrical impulse protection	Latency	Recovery time
SPL 10kW	380V/50Hz, 3P	10kW	< 25					
SPL 20kW	380V/50Hz, 3P	20kW	25÷60	< 290V or > 480V	65	15kV	0.1 - 20 s	0.1 - 20 s
SPL 25kW	380V/50Hz, 3P	25kW	60÷100	01 2 400 V				



### Notes:

1. Connect and install it as per the instructions and only use with 3-phase power supply to protect the fishing LED.

2. Avoid overloads

3. In case the protector is activated, in order to resume operation, all errors must be fixed. When the SPD indicator light does not work, replace it with another SPD to ensure the protection function.

4. Do not modify the device's protection pre-settings.

### Features/advantages:

1. Protection against electrical impulse up to 15,000V, including:

- impulse caused by lightning
- impulse caused by generator starting
- impulse caused by HID lamp

2. Protection for voltage incidents caused by the imbalance of 3 generator phases or wrong phase connection.

### \*Please choose the right protector in line with the total wattage of all the lights aboard

## LIGHT FOR ACTIVITIES ABOARD >>> DECK LIGHT





**SPECIFICATIONS** 

Model	Voltage (V)	<b>Lumen</b> (lm)	Luminous efficiency (Im/W)	<b>сст</b> (К)	<b>Dimension</b> (mm)
CB02 50W V2	180 ÷ 250	5000	100	3000/4000/6500	135x125x155
CB06 50W	180 ÷ 250	5000	100	3000/4000/6500	220x197x55
CB02 100W	150 ÷ 250	12000	120	5000	270x130x150
CB02 150W	150 ÷ 250	18000	120	5000	290x130x150

### Model: A60N1/9W.DC; TR70N1/12W.DC TR80N1/20W.DC; TR100N1/30W.DC



### **SPECIFICATIONS**

Model	Voltage (VDC)	<b>Lumen</b> (lm)	Beam angle (°)	<b>ССТ</b> (К)	<b>Clip size</b> (Øxh: mm)	<b>Dimension</b> (Øxh: mm)
A60N1/9W.DC	12 ÷ 24	870	180	6500	60x100	60x114
TR70N1/12W.DC	12 ÷ 24	1100	180	6500	70x110	70x117
TR80N1/20W.DC	12 ÷ 24	1800	180	6500	81x136	81x143
TR100N1/12W.DC	12 ÷ 24	2500	180	6500	100x178	100x185

### LED T BULB. AC Model: TR100.TC 30W

**TR120.TC 40W** 



## POWER **30W**

**40W** 

Voltage range:	220 V/ 50 ÷ 60 Hz
Lumen:	1800 lm/ 2700 lm
Lifespan:	15 000 h
CCT:	6500 K
Dimension (ØxH)	: 100x170 (mm) (30 W)
	120x200 (mm) (40 W)

\*EMI with non-interference on communication devices aboard

**SPECIFICATIONS** 

## **M28** - LED LIGHT SPECIALIZED FOR SEAFOOD PROCESSING

LED M28





## Illuminated

### Application /usage :

- Lighting in high humidity area:
- In frozen seafood processing factories
- In underground parking garages of apartments,
- shopping centers, etc. • In warehouses

### Advantages:

- Protection level of IP65 which resists water, withstand humidity, convenient structure for easy installation.
- 2-year guarantee



### **SPECIFICATIONS**

Voltage range:	220 V/50 ÷ 60 Hz
Lumen:	4000 lm
Luminous efficiency:	100 lm
IP:	IP65
CCT:	3000 K/ 4000 K/ 5000 K
Dimension (LxWxH);	1200x75x55 (mm)

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## CERTIFICATIONS



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Customer 3. Số lượng mẫu:	Rang Dong Light Source & Vacuum Flask Company 01
Quantity	01
4. Ngày nhận mẫu:	22 / 08 / 2017
Reception date 5. Ghi nhān:	Rang Dong
Marking 6. Tinh trạng mẫu:	Méi
Status of sample	New
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## RANG DONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY

- Head office / Factory no.1: 87-89 Ha Dinh Str., Thanh Xuan Dist., Hanoi, Vietnam 2<sup>nd</sup> base: Que Vo Industrial Area, Bac Ninh Province
- www.en.rangdong.com.vn
- +84 24 38584310
- ☑ export@rangdong.com.vn
- RangDong Vietnam