

## 12W LED

- ◆ Fully Dimmable
- ◆ 2,000 Meter Depth Rated
- ◆ 50,000 Hours LED lifespan
- ◆ Thermal monitoring allows operation in air



## 23W LED

- ◆ Fully Dimmable
- ◆ 2,000 Meter Depth Rated
- ◆ 50,000 Hours LED lifespan
- ◆ Thermal monitoring allows operation in air



## 50W LED

- ◆ Wide input power range
- ◆ 4,000 Meter Depth Rated
- ◆ 50,000 Hours LED lifespan
- ◆ Easy Dimming by a PWM signal
- ◆ Thermal monitoring allows operation in air





12W



23W



50W

## ➤ Mechanical

Dimensions	D 40 x L 58 mm	D 49.5 x L 95 mm	D 82.5 x L 136 mm
Net Weight	0.31Kg in Air	0.32Kg in Air	0.72Kg in Air
Standard Housing	Hard Anodized 6061-T6 Aluminum	Hard Anodized 6061-T6 Aluminum	Hard Anodized 6061-T6 Aluminum
Connector	BIRNS P/N:MCBH4M(4 Pins)	BIRNS P/N:MCBH4M(4 Pins)	BIRNS P/N:MCBH4M(4 Pins)

P.S We also has full range of rubber connector as your new options.

## ➤ Electrical

Input Power	12 to 30 VDC	12 to 30 VDC	36 to 56 VDC ; 140 to 180 VDC ; 280 to 340 VDC
Current Draw	1 A @ 12 VDC	1.95 A @ 12 VDC	1.5 A @ 36 VDC
Power	12 W	23 W	50 W
Dimming	0-100% PWM signal(100~20KHz) or 0.5 to 2.5 VDC for 0~100% Ctrl	0-100% PWM signal(100~20KHz) or 0.5 to 2.5 VDC for 0~100% Ctrl	0-100% PWM

## ➤ Environmental

Depth Rating	2,000 m	2,000 m	4,000 m
Min/Max Operation Temp	-10 ~ 50 °C	-10 ~ 50 °C	-10 ~ 50 °C (14 ~ 122°F)

## ➤ Optical

Color	White / Customized	White / Customized	White / Customized
Lumens in the Water	870	1,100(1.4A), 1,580(2A)	2760 lm(LED Curent Output At 1,500 mA), EDISON LED Module
Color Temp Standard	6,000 ~ 7,000°K	4,500 ~ 5,000 or 6,000 ~ 6,500°K	5,600 ~ 6,000°K
Beam Pattern	60°	120°	105°