

# Turbo



The TURBO is a high lumen output luminaire with customised optics to provide uniform lighting and is designed to withstand challenging applications.

## OVERVIEW

### SPECIAL FEATURES

- The high lumen output LED array and customised optic provides uniform lighting for many applications
- LM6 marine grade die cast aluminium body for strength and durability suitable for sea side applications
- IP66 rated fixture against harsh environments
- Vibration Proof - Withstands vibration featuring a robust arm bracket, fixture and driver box
- Remote driver box suitable for up to 60m from fixture using 2.5mm<sup>2</sup> cable

### Compliance

- Safety: AS/NZS 60598
- EMC: AS/NZS CISPR15
- IEC 60068-2-6
- 3G 3-D (X, Y, Z axes) Vibration test, 5 hours per axis

### APPLICATIONS

- General Flood Lighting
- High Mast Lighting
- Field Lighting
- Port Lighting
- Dragline Lighting
- Mobile Lighting Plants
- Areas of Heavy Vibration
- Shovel Lighting

## SPECIFICATIONS & MEASUREMENTS

### SPECIFICATIONS

**ELECTRICAL** 240 Vac 50hz (also available in 415V)

**LED SERVICE LIFE** 50,000 hrs (L80)

**CCT (4000K AVAILABLE UPON REQUEST)** 5000K

**CRI** >70

**DISTRIBUTION** Symmetrical

**DRIVER** Remote

**DIMMABLE** 1-10V

**OPERATION TEMPERATURE** -20°C - +50°C

**BODY** Akzo Nobel Epoxy Powder Coating

**FINISH** RAL 9007

**HARDWARE** 316 Stainless Steel

**MOUNTING** Posi locking indexed aiming device

**LENS** Tempered Glass

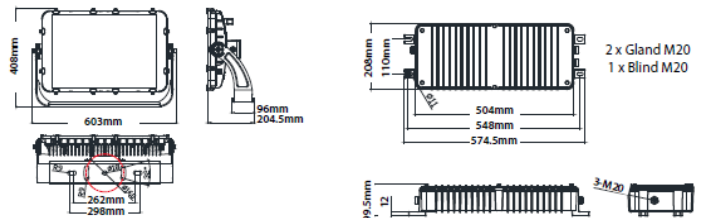
**SPD** 25kA (50kV)

**VIBRATION RESISTANCE** 3G, 3-D Vibration Cycle Test

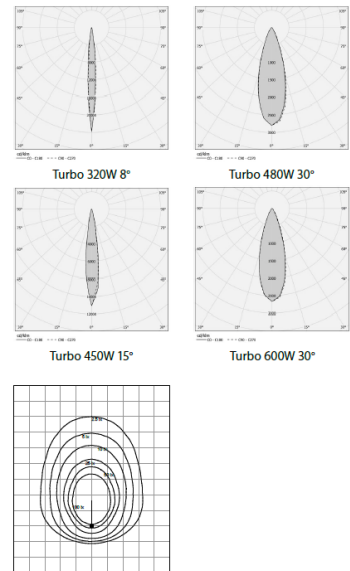
### MEASUREMENTS & WEIGHTS

**WEIGHT** 14.37 - 15.16 kgs Max

**WATTAGE** 320W 450W 480W 600W



CODE	DESCRIPTION	BEAM ANGLE	LED TYPE	LUMINOUS FLUX (LM)	EFFICACY	HID EQUIVALENT	FIXTURE NET WEIGHT	DRIVER BOX WEIGHT	POWER FACTOR
185811	ELI Turbo - LED 320W IP66 - 5000K / 3G Floodlight	8°	3737 Osram P8	41,600lm	130lm/W	HPS 400W	15.16kg	5.83kg	>0.93
185812	ELI Turbo - LED 320W IP66 - 5000K / 3G Floodlight	15°	3737 Osram P8	41,600lm	130lm/W	HPS 400W	14.98kg	5.83kg	>0.93
185813	ELI Turbo - LED 320W IP66 - 5000K / 3G Floodlight	30°	5050 Luminus	48,000lm	150lm/W	MH 1000W (European)	14.46kg	5.83kg	>0.93
185814	ELI Turbo - LED 320W IP66 - 5000K / 3G Floodlight	60°	5050 Luminus	48,000lm	150lm/W	MH 1000W (European)	14.37kg	5.83kg	>0.93



- Remote 240V 50Hz IP66 Driver Enclosure Included. Pictorial is representative only. Specifications may change without notice.

### TURBO 450W

CODE	DESCRIPTION	BEAM ANGLE	LED TYPE	LUMINOUS FLUX (LM)	EFFICACY	HID EQUIVALENT	FIXTURE NET WEIGHT	DRIVER BOX WEIGHT	POWER FACTOR
185815	ELI Turbo - LED 450W IP66 - 5000K/3G Floodlight	8°	3737 Osram P8	64,000lm	120lm/W	MH 1000W (European)	15.02kg	6.73kg	>0.95
185816	ELI Turbo - LED 450W IP66 - 5000K/3G Floodlight	15°	3737 Osram P8	64,000lm	120lm/W	MH 1000W (European)	14.85kg	6.73kg	>0.95

- Remote 240V 50Hz IP66 Driver Enclosure Included. Pictorial is representative only. Specifications may change without notice.

### TURBO 480W

CODE	DESCRIPTION	BEAM ANGLE	LED TYPE	LUMINOUS FLUX (LM)	EFFICACY	HID EQUIVALENT	FIXTURE NET WEIGHT	DRIVER BOX WEIGHT	POWER FACTOR
185820	ELI Turbo - LED 480W IP66 - 5000K / 3G Floodlight	30°	5050 Luminus	74,000lm	150lm/W	MH 1000W (USA)	14.49kg	6.73kg	>0.95
185825	ELI Turbo - LED 480W IP66 - 5000K / 3G Floodlight	60°	5050 Luminus	74,000lm	150lm/W	MH 1000W (USA)	14.53kg	6.73kg	>0.95

- Remote 240V 50Hz IP66 Driver Enclosure Included. Pictorial is representative only. Specifications may change without notice.

### TURBO 600W

CODE	DESCRIPTION	BEAM ANGLE	LED TYPE	LUMINOUS FLUX (LM)	EFFICACY	HID EQUIVALENT	FIXTURE NET WEIGHT	DRIVER BOX WEIGHT	POWER FACTOR
185830	ELI Turbo - LED 600W IP66 - 5000K / 3G Floodlight	30°	5050 Luminus	90,000lm	150lm/W	HPS 1000W - MH 1500W	14.34kg	7.24kg	>0.95

CODE	DESCRIPTION	BEAM ANGLE	LED TYPE	LUMINOUS FLUX (LM)	EFFICACY	HID EQUIVALENT	FIXTURE NET WEIGHT	DRIVER BOX WEIGHT	POWER FACTOR
185835	ELI Turbo - LED 600W IP66 - 5000K / 3G Floodlight	60°	5050 Luminus	90,000lm	150lm/W	HPS 1000W - MH 1500W	14.53kg	7.24kg	>0.95

- Remote 240V 50Hz IP66 Driver Enclosure Included. Pictorial is representative only. Specifications may change without notice.

## ACCESSORIES

CODE	DESCRIPTION
-	Laser Aiming Device
-	Motion Sensor, Photocell
-	DALI (available upon request)
-	IoT Smart Control
-	Laser Aiming Device

## IN-RUSH CURRENT RATING

### CIRCUIT BREAKER CALCULATION BASED ON 50%IPK-50%IPK

Model Name	Max Leakage Current	In-rush Current (A)	In- Rush Current (A) Condition
TURBO-LED-320W (8°)	0.7mA	27 A	At 220Vac input, 25° cold start, twidth = 1200 μS, 50%Ipk-50%Ipk.
TURBO-LED-320W (15°)	0.7mA	27 A	At 220Vac input, 25° cold start, twidth = 1200 μS, 50%Ipk-50%Ipk.
TURBO-LED-320W (30°)	0.7mA	27 A	At 220Vac input, 25° cold start, twidth = 1200 μS, 50%Ipk-50%Ipk.
TURBO-LED-320W (60°)	0.7mA	27 A	At 220Vac input, 25° cold start, twidth = 1200 μS, 50%Ipk-50%Ipk.
TURBO-LED-450W (8°)	0.7mA	26 A	At 220Vac input, 25° cold start, twidth = 1720 μS, 50%Ipk-50%Ipk.
TURBO-LED-450W (15°)	0.7mA	26 A	At 220Vac input, 25° cold start, twidth = 1720 μS, 50%Ipk-50%Ipk.
TURBO-LED-480W (30°)	0.7mA	26 A	At 220Vac input, 25° cold start, twidth = 1720 μS, 50%Ipk-50%Ipk.
TURBO-LED-480W (60°)	0.7mA	26 A	At 220Vac input, 25° cold start, twidth = 1720 μS, 50%Ipk-50%Ipk.
TURBO-LED-600W (15°)	0.7mA	28.6 A	At 220Vac input, 25° cold start, twidth = 2400 μS, 50%Ipk-50%Ipk.
TURBO-LED-600W (30°)	0.7mA	28.6 A	At 220Vac input, 25° cold start, twidth = 2400 μS, 50%Ipk-50%Ipk.