

## **AN-TGD05 LED flood light INSTRUCTION MANUAL**

Model:	AN-TGD05 系列

Date : 2021

Revision: <u>A0</u>



### —、Product Image



### **Integrated design**

Easy to install, strong and reliable.



### **Streamlined design**

Small cross-sectional area, lower wind resistance.

## 1.Design theme and concept

**Theme:** People-oriented, optimizing life, establishing image, highlighting individuality.

**Concept:** safe and reliable, advanced technology, economical and reasonable, energy saving and environmental protection, convenient maintenance and other principles.



### 2. Design compliance with standards and regulations

#### 1) The structure and safety performance of lamps should be based on:

"General safety requirements and tests for lamps" GB7000.1-2007

"Safety requirements for road and street lighting fixtures" GB7000.5-2005

"Lamp Control Device Technology, Part 1" GB19510.1-2004

### 2) The optical performance of lamps should be based on:

"Urban Road Lighting Design Standard" CJJ45-2006

"Photometric Test of Road Lighting Fixtures" GB9468-1998

#### 3. Product features

- ◆The product adopts AL6063 stretch forming, the surface is anodized, and the anti-corrosion level is higher;
- ◆The two ends are integrated by ADC12 die-casting, and the surface is electrostatic sprayed, which is strong and anti-corrosion;
- ◆ Adopt air convection active heat dissipation method to ensure the working temperature of the light source, and the power supply is placed below, the temperature is lower;
- ◆The product has a large built-in space and can be equipped with intelligent PLC, Zigbee, sensor and other modules;
- ◆ Multiple optical angles, including TYPE II, TYPE III, TYPE IV, TYPE V, NEMA4, NEMA6, etc.
- ◆ A variety of installation methods are available, including rotating bracket, wall mounting, pole mounting, etc.

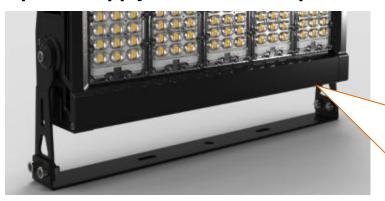
### 4. Applicable occasions:

- 1) It is suitable for the lighting of urban squares and the lighting of ramp high pole areas;
- 2) Project lighting for large buildings, long-distance lighting;
- 3) Airport high pole lighting, highway and park high pole lighting;
- 4) Basketball courts, football fields, tennis, baseball fields and other places.



### 5.Structural features

# 1) The power supply is double waterproof



Built-in waterproof power supply + shell protection, placed under the lamp body, low temperature, IP66 design, with short circuit/ overload/overvoltage/overte mperature protection functions, etc.

### 2)Special optical design mask



Japanese Teijin Optics PC, high-precision molding, high light transmittance, yellowing UV resistance, etc.



# **□.Product specifications**

### 1. Product Selection Table

Туре	Product model	LED (PCS)	Number of	Rated power	Luminous
			lamps	(W)	flux(LM)
	AN-TGD05-300W	432pcs	8S18P * 3	300	42000LM
Black	AN-TGD05-400W	576pcs	8S18P * 4	400	56000LM
	AN-TGD05-500W	720pcs	8S18P * 5	500	70000LM

# 2. Electrical parameters

Parameter	Min	Rated value	Max
Voltage	85V AC	220V AC	285V AC
Operating frequency	43Hz	50Hz	63Hz
Total power		±5%	
Light source power		-10%	
Power factor	0.92	0.95	0.99
Power efficiency	86%	89%	92%
Constant current accuracy	2%	3%	5%



# 3. Optical parameters

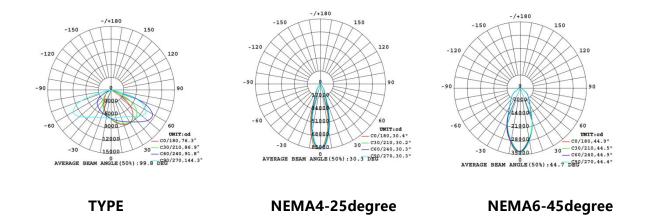
ltem	Parameter value			
LED single light effect	≥140 Lm/W			
Luminous flux	300W≥42000Lm,400W≥56000Lm,500W≥70000Lm			
Lamp efficiency	≥90%			
Color rendering index	≥80			
Beam angle	TYPE II, TYPE III, TYPE IV, TYPE V, NEMA4, NEMA6			
Color tolerance	≦5 SDCM			
Color temperature	Warm white: 3000K Positive white: 4000K Cool white: 5000K			

## 4.Use parameters

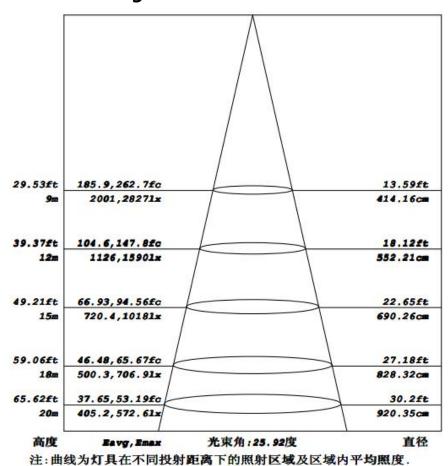
ltem	Parameter value			
Surface temperature	< 65°C			
Working temperature	-25°C—45°C			
Storage temperature	-40°C—85°C			
Adaptation humidity	≤90%			
Material composition	Aluminum alloy、special optical design mask、high and low temperature resistant waterproof silicone sealing ring			
Mean time between failures	30000 hrs			
Protection grade	IP66			
Installation method	Rotaing brachet installation, ¢60pole installation, wall installation			
Recommended pole height	15m-18m			



# 5. Light distribution curve



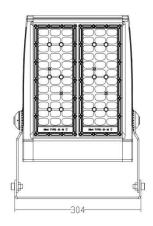
## 6. Isoilluminance diagram

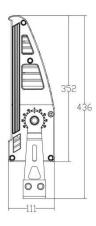


**NEMA4-25 degree reference** 

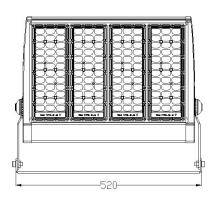


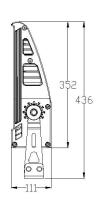
## 7. Dimensions



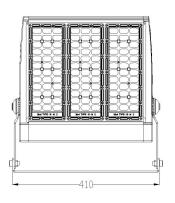


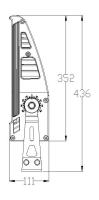
200W



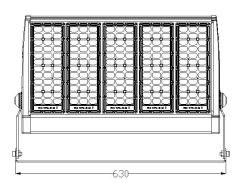


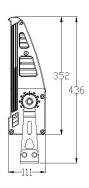
300W





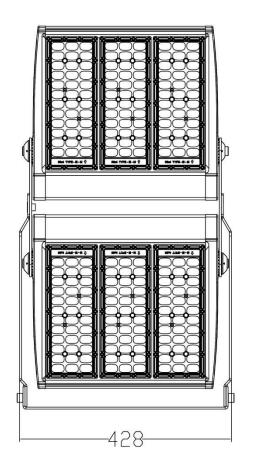
400W

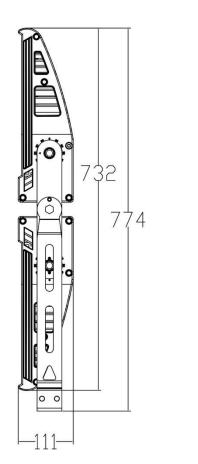




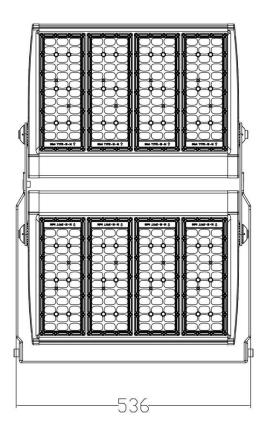
500W

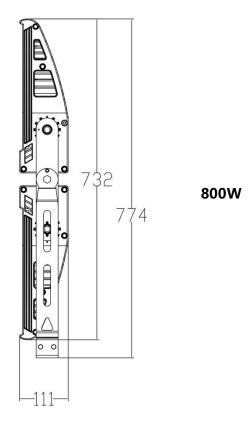




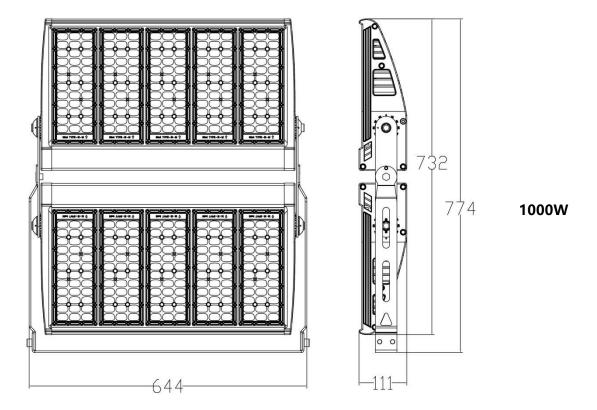


600W









## 3. Product description

### 1. Instructions

- •The LED high pole light input is a 3-core sheathed wire, in which the brown wire is connected to the live wire, the blue wire is connected to the neutral wire, and the yellow-green flower wire is grounded.
- Fix the LED high pole light on the installation platform, tighten the hexagonal screws, and keep the LED high pole light balanced during installation.
- Apply the rated voltage to the LED high pole lamp to work normally. During the working process, ensure that the voltage is within the rated range. If the rated voltage is exceeded, it will cause irreparable damage.



### 2. Matters needing attention

- Please cut off the power before installation and make sure that the installation part can bear the weight of the lamp.
- In order to prevent the lamp from falling off, please make sure that the installation is correct. .
- Please do not cover any material on the lamp.
- For safety, please connect the ground wire securely.
- The breakdown, modification, or improper construction of this product is not within the scope of this warranty.

### 3. Package instruction



Specification	L	W	Н	KG	Remarks
TG03 stadium lights-2groups	360	475	160	6.8	200W
TG03stadium lights-3groups	470	475	160	9.5	300W
TG03stadium lights-4groups	580	475	160	11.8	400W
TG03stadium lights-5groups	690	475	160	14.5	500W
TG03 stadium lights-6groups (拼)	470	830	160	19.3	600W
TG03 stadium lights-8groups (拼)	580	830	160	23.8	800W
TG03 stadium lights-10groups (拼)	690	830	160	28	1000W

Weight includes power supply (refer to Inventronics power supply weight)