

LED Area Flood Lighting

MAHA-PLUS Series

MAH400 / MAH300

Product Description

- Unrivaled efficacy 150 lm/W
- Asymmetric beam enabling cost efficient 1 for 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or Receptacle

Application

- Sporting Facilities
- Airplane Hangars
- Airport Aprons
- Parking Lots
- Harbour / Yard

Certification

- UL
- FCC
- KC
- CB / CE
- DLC



MAHA-PLUS Series Specifications

Model Name		MAH400					MAH300				
Power Consumption		400W					300W				
CCT		5700K	5000K	4000K	3500K	3000K	5700K	5000K	4000K	3500K	3000K
Luminous Flux * (lm)		58,000	60,000	58,000	56,800	56,000	43,500	45,000	43,500	42,600	42,000
Luminous Efficacy * (lm/W)		145	150	145	142	140	145	150	145	142	140
CRI		80Ra									
LED Driving Current		104 mA									
Light Distribution		95 mA									
BUG Rating		B3 - U2 - G4									
Input Voltage		100 ~ 240 Vac / 120 ~ 277 Vac / 347 ~ 480 Vac									
Input Current		Max. 5.0A (@100Vac)					Max. 4A (@100Vac)				
		Max. 1.5A (@347Vac)					Max. 1.1A (A347Vac)				
Power Factor		≥0.9 at Max load									
Frequency		50 / 60 Hz									
Surge Protection		Line – Line 20kV, Line – FG 20kV									
Driver Type		Constant Current (CC)									
Fixture Manufacturer		GigaTera Lighting Inc. / Made in Korea / Made in Vietnam									
Size	mm	475 x 525 x 196									
	inch	18.7 x 20.7 x 7.7									
Weight		15.0 kg / 33.1 lb									
Material	Body	Cast Aluminum									
	Optic	AL Coating Reflector									
	Cover	Tempered Glass 4.0T (Clear)									
Finish		Powder Coating									
IP Rating		IP66									
Effective Projected Area	Front (ft ² / m ²)	0.763 / 0.071									
	Side (ft ² / m ²)	0.684 / 0.064									
Operating Temperature		-30°C ~ 50°C									
Option	Control	Wireless (ZigBee) / NEMA-7									
	Mounting	Swivel Bracket, Pole Mount Bracket									
Operation Life Time		> 60,000 hours (L80B10) at upto Ta 40 °C									
Warranty		5 Years (12 hours usage per day)									

* Tolerance : ± 10%

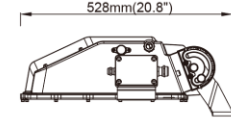
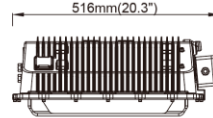
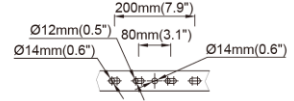
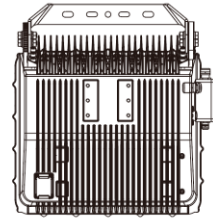
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MAHA-PLUS Series

GigaTera®
beyond light

MAH400 / MAH300

Dimension - MAH400 / MAH300



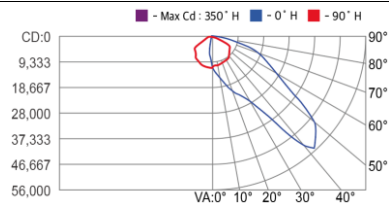
Size

516 x 528 x 196 (mm)

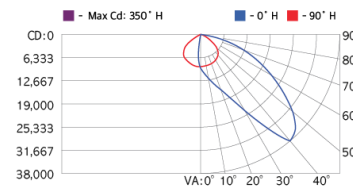
20.3 x 20.8 x 7.7 (inch)

Photometry Data

MAH400 / 5000K



MAH300 / 5000K



Control System (Optional)

Wireless Control	ZigBee	
Input Voltage	15 Vdc	
Max. Power Consumption	0.3W (@15 Vdc)	
Standard	2.4 GHz – IEEE 802.15.4 (Compatible)	
Network	Mesh	
RF Tx Power	Max. +8 dBm (Typ. 5 dBm)	
Data Rate	250 kbps	
Security	128 bit AES Encryption Algorithms	
Antenna	Omni Type, 2 dBi	
Wired Control	RS-485	DMX-512
Input Voltage	15 Vdc	
Max. Power Consumption	0.2W (@15 Vdc)	
Communication Method	RS-485	DMX-512
Data Rate	115,200 bps, 8-N-1	250,000 bps, 8-N-2
NEMA-7		
Mechanical	7 Position : 3 Power Contacts + 4 dimming/Signal Contacts	
Electrical	Power Contacts. 15A, Max.480Vac/dc	
	Dimming Contacts. 0.10A, Max.10Vac/dc	
Model Name	TE, 2213362-4(ANSI C136.41-2013 Dimming Receptacle)	
	te.com	

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Mount Bracket Installation Reference (Optional)

MAH400 / MAH300

KMDLMBK010320





	Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
	 Upward 165° / Downward 15°	 Upward 55° / Downward 125°	 Upward 75° / Downward 105°	 Upward 145° / Downward 35°

KMDLMBK010250

	Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
	 Upward 165° / Downward 15°	 Upward 55° / Downward 125°	 Upward 75° / Downward 105°	 Upward 145° / Downward 35°

KETBKTL1ZNN001

KMDLMBK010020

	KMDLMBK010320 + KETBKTL1ZNN001			KMDLMBK010020
				

Ordering Information (MAHA-PLUS Series)

Ordering Code Usage : MAP400-V50WGP

MAH	000	-	O	OO	O	O	O
	Power Consumption		Input Voltage	CCT (K)	Control System	Fixture Color	Version
	400 = 400W 300 = 300W		B = 100 ~ 240V C = 347 ~ 480V E = 120 ~ 277V H = 200 ~ 277V	50 = 5000K 40 = 4000K 30 = 3000K	Z = Wireless(Zigbee) G = NEMA-7 N = None W = Wired (RS-485) M = Wired (DMX-512)	G = Gray Powder	P = Plus