

LED Area Flood Lighting

MAHA-PLUS Series



MAH400 | MAH300

Product Description

- Delivers exceptional heat dissipation performance, ensuring high luminous efficacy and long-term reliability.
- Design to reduce glare and light spill, supporting sustainable and environmentally responsible light practices.
- Engineered with precise optical cut-off performance to eliminate uplight and ensure focused illumination.
- Supports flexible control options, enabling seamless smart lighting integration.
- Offers both integrated and remote driver options to accommodate diverse installation conditions and design requirements.
- Achieve highly uniform and efficient light distribution tailored to application needs.



Application

- Sports Fields / Facilities
- Parking-lots
- Airport
- Port / Terminal
- Railroad / Yard

Certification

- CE / CB
- ENEC
- UL
- KC

MAHA-PLUS Series Specifications

Model Name		MAH400				MAH300			
Power Consumption		400W				300W			
CCT		5700K	5000K	4000K	5000K	5700K	5000K	4000K	5000K
Luminous Flux * (lm)		58,000	60,000	60,000	56,000	43,500	45,000	45,000	42,000
Luminous Efficacy * (lm/W)		145	150	150	140	145	150	150	140
CRI		70Ra	70Ra	70Ra	70Ra	70Ra	70Ra	70Ra	70Ra
LED Driving Current		55 mA				41 mA			
LED Input Voltage		48 Vdc							
Light Distribution		Asymmetric Wide							
BUG Rating		B3 – U0 - G4							
Input Voltage		100~240 Vac							
Input Current		Max. 4.14A (@120Vac)				Max. 3.1A (@120Vac)			
		Max. 2.2A (@220Vac)				Max. 1.65A (@220Vac)			
Inrush Current (I ² t)		Max. 9.22 A²s, At 220Vac input, 25°C cold start, duration=776us, 10%lpk-10%lpk							
Power Factor		≥0.9 at Max load							
Frequency		50 / 60 Hz							
Surge Protection		Line – Line 20kV, Line – FG 20kV							
Driver Installation Type		Mounted Driver Type							
Fixture Manufacturer		GigaTera Lighting Inc.							
Size	inch	14.1 x 7.7 x 20.7							
	mm	357.0 x 196.0 x 527.0							
Weight (BKT Include)		23.1 lb / 10.5 kg							
Material	Body	Cast Aluminum							
	Optic	AL Coating Reflector							
	Cover	Tempered Glass 4.0T (Clear)							
Finish		Powder Coating							
IP Rating		IP66							
IK Rating		IK66							
Effective Projected Area (EPA)	Front	0.617 ft² / 0.057 m²							
	Side	0.453 ft² / 0.042 m²							
Operating Temperature		-22°F ~ 131°F / -30°C ~ 50°C							
Operation Life Time		> 100,000 hours (L90B10) at 25°C							
Option	Control	Wireless (Zigbee, NEMA-7)							
	Bracket	See next pages							
Warranty		5 Years (10 years conditional warranty, TBS)							

* Tolerance : ± 5%

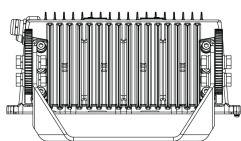
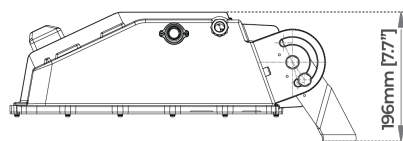
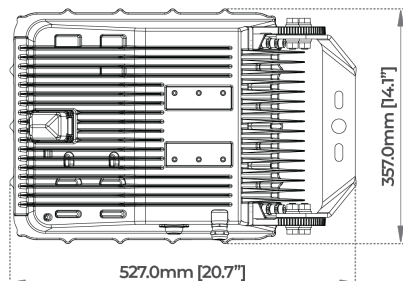
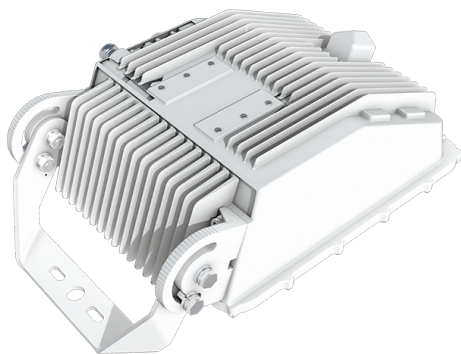
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Dimension – MAH400 (300)



Size

14.1 x 7.7 x 20.7 (inch)

357.0 x 196.0 x 527.0 (mm)

Control System (Optional)

ZigBee	Wireless Control
Input Voltage	12 Vdc
Max. Power Consumption	0.3W (@12 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

NEMA-7 (Zhaga option available)

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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MAH400 - (5700K/5000K/4000K/3000K)

CCT	5700K		5000K	
Luminous Flux * (lm)	56,000	58,000	58,000	60,000
Luminous Efficacy * (lm/W)	140	145	145	150
CRI	80Ra	70Ra	80Ra	70Ra
CCT	4000K		3000K	
Luminous Flux * (lm)	58,000	60,000	54,000	56,000
Luminous Efficacy * (lm/W)	145	150	135	140
CRI	80Ra	70Ra	80Ra	70Ra

* Tolerance : ± 5%

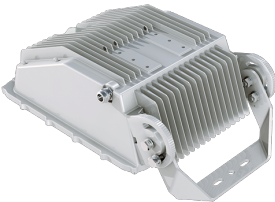
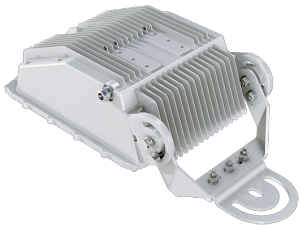
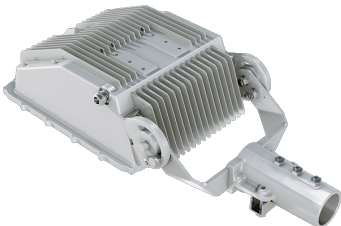
MAH300 - (5700K/5000K/4000K/3000K)

CCT	5700K		5000K	
Luminous Flux * (lm)	42,000	43,500	43,500	45,000
Luminous Efficacy * (lm/W)	140	145	145	150
CRI	80Ra	70Ra	80Ra	70Ra
CCT	4000K		3000K	
Luminous Flux * (lm)	43,500	45,000	40,500	42,000
Luminous Efficacy * (lm/W)	145	150	135	140
CRI	80Ra	70Ra	80Ra	70Ra

* Tolerance : ± 5%

Mount Bracket Options (Optional)

MAH400 | MAH300

KMDLMBK010310		KETBKTLC1ZNN001	
	Surface Mount Bracket		KMDLMBK010310+ KETBKTLC1ZNN001
	 Upward 110° / Downward 70°		
KMDLMBK010020			
	KMDLMBK010310+ KMDLMBK010020		
			

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Ordering Information				Ordering Code Usage : MAH400-B50ZGP			
MAH	Power Consumption	-	Input Voltage	CCT(K)	Control System	Fixture Color	Model Revision
	000		O	OO	O	O	O
	300 = 300W 400 = 400W		B = 100 ~ 240V C = 347 ~ 480V E = 120 ~ 277V H = 200 ~ 277V	57 = 5700K 50 = 5000K 40 = 4000K 30 = 3000K	Z = Wireless (Zigbee) G = NEMA-7 N = None	G = Gray Powder	P = Plus