MAHA-PLUS Series

MAH500 / MAH400

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 (Built-in Driver type) Specifications						
Model N	ame	MAH500	MAH400			
Power Consumption		500W	400W			
ССТ		5000K (5700K / 4000K / 3000K available)				
Luminous	s Flux *	75,000 lm	60,000 lm			
Luminous	s Efficacy *	150 lm/W				
CRI		80 Ra				
LED Drivi	ng Current	104 mA	95 mA			
Light Dist	tribution	Asymmetric Wide				
BUG Rati	ng	B3 – U0 – G5				
Input Vol	tage	220 ~ 240 Vac / 200 ~ 277 Vac	100 ~ 240 Vac / 120 ~ 277 Vac / 347 ~ 480 Vac			
Input Cur	ront	Max. 3.0A (@200Vac)	Max. 5.0A (@100Vac)			
input Cur	rent	-	Max. 1.5A (@347Vac)			
Power Fa	ctor	≥0.9 at Max load				
Frequenc	У	50 / 60 Hz				
Surge Pro	otection	Line – Line 20kV, Line – FG 20kV				
Driver Ty	pe	Constant Current (CC)				
Fixture M	anufacturer	GigaTera Lighting Inc. / Made in Korea / Made in Vietnam				
Size	mm	475 x 525 x 196				
Size	inch	18.7 x 20.7 x 7.7				
Weight		15.0 kg / 33.1 lb				
	Body	Cast Aluminum				
Material	Optic	AL Coating Reflector				
	Cover	Tempered Glass 4.0T (Clear)				
Finish		Powder Coating				
IP Rating		IP66				
Effective Projected Area Front (ft² / m²) Side (ft² / m²)		0.763 / 0.071				
		0.684 / 0.064				
Operating	Temperature	-30°C ~ 50°C				
Option	Control	Wireless (ZigBee) / NEMA-7				
Option	Mounting	Swivel Bracket, Pole Mount Bracket				
Operation	n Life Time	> 60,000 hours (L80B10) at upto Ta 40 °C				
Warranty		5 Years (12 hours usage per day)				

* Tolerance : $\pm 10\%$



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Model Na	ame	MAH500	MAH400		
Power Co	onsumption	500W	400W		
сст		5000K (5700K / 4000K / 3000K available)			
Luminous	s Flux *	75,000 lm	60,000 lm		
Luminous	s Efficacy *	150 lm/W			
CRI		80 Ra			
LED Drivi	ng Current	100 mA			
Light Dist	ribution	Asymmetric Wide			
BUG Rati	ng	B3 - U2 - G4			
Input Voltage		DC100V (through RED)			
Fixture Manufacturer		GigaTera Lighting Inc. / Made in Korea / Made in Vietr	am		
Size	mm	475 x 525 x 196			
Size	inch	18.7 x 20.7 x 7.7			
Weight		11.3 kg / 24.9 lb			
	Body	Cast Aluminum			
Material	Optic	AL Coating Reflector			
	Cover	Tempered Glass 4.0T (Clear)			
Finish		Powder Coating			
IP Rating		IP66			
Operating Temperature		-30°C ~ 50°C			
Option	ption 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 : $\pm\,10\%$

Remote Driver Specifications						
Model Name	RED1K0	RED800				
Power Consumption	1,000W	800W				
Compatible Model	MAH500 x 2ea	MAH400 x 2ea				
Input Voltage	200 ~ 277 Vac / 347 ~ 480 Vac					
Output Voltage	DC100V					
Input Current	Max. 6.3A (@200Vac)	Max. 5.0A (@200Vac)				
input Current	Max. 3.7A (@347Vac) Max. 2.9A (@347Vac)					
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					
Weight	13.0 kg / 28.7 lb (Include IP Box : 20 kg / 44.1 lb)					
IP Rating	IP66 (When IP box applied)					
Operating Temperature	-30°C ~ 50°C					
Option Control	Wired (RS-485, DMX-512)					
Warranty	5 Years (12 hours usage per day)					

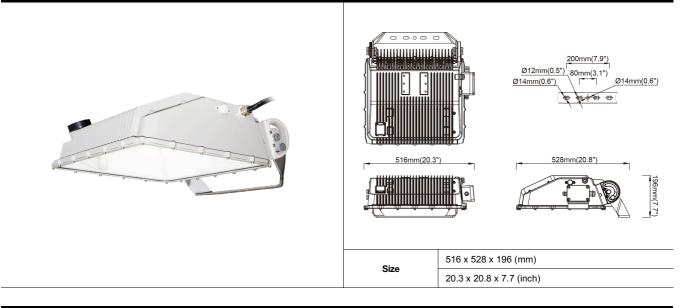
* Tolerance : \pm 10%

MAHA-PLUS Series





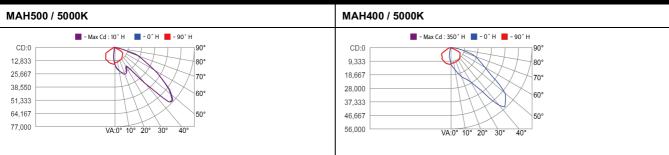
Dimension - MAH500 / MAH400



Remote Driver Dimension

Remote Driver Dr	RED (Wired)	RED IP66 BOX (Optional)		
7. <u>15"(181.7</u> mm)	18.5"(470mm)		587mm(23.1")	
Size	470.0 x 151.2 x 181.7 (mm)	Size	587.0 x 246.0 x 244.0 (mm)	
	18.5 x 6.0 x 7.2 (inch)	0.20	23.1 x 9.7 x 9.6 (inch)	

Photometry Data



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MAHA-PLUS Series



MAH500 / MAH400

Control System (Optional)

Wireless Control	ZigBee				
Input Voltage	15 Vdc	15 Vdc			
Max. Power Consumption	0.3W (@15 Vdc)	0.3W (@15 Vdc)			
Standard	2.4 GHz – IEEE 802.15.4 (C	ompatible)			
Network	Mesh				
RF Tx Power	Max. +8 dBm (Typ. 5 dBm)				
Data Rate	250 kbps				
Security	128 bit AES Encryption Algo	rithms			
Antenna	Omni Type, 2 dBi	Omni Type, 2 dBi			
Wired Control	RS-485	DMX-512			
Input Voltage	15 Vdc	15 Vdc			
Max. Power Consumption	0.2W (@15 Vdc)	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 Contact	7 Position : 3 Power Contacts + 4 dimming/Signal Contacts			
Electrical	Power Contacts. 15A, Max.4	Power Contacts. 15A, Max.480Vac/dc			
Electrical	Dimming Contacts. 0.10A, M	Dimming Contacts. 0.10A, Max.10Vac/dc			
	TE 0040060 4/4NICL 0406 4	TE, 2213362-4(ANSI C136.41-2013 Dimming Receptacle)			
Model Name	TE, 2213302-4(AINSI C130.4				

Mount Bracket Installation Reference (Optional)

MAH500 / MAH400

KWDLWBK010320				
	Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
		er synametrik E		
	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)
	and the second second			a market and a second

Upward 165° / Downward 15° Upward 55° / Downward 125° Upward 75° / Downward 105° Upward 145° / Downward 35°	25252				
		Upward 165° / Downward 15°	Upward 55 ° / Downward 125 °	Upward 75 ° / Downward 105 °	Upward 145 ° / Downward 35 °

MAHA-PLUS Series





KETBKTLC1ZNN001		KMDLMBK010020	
	KMDLMBK010320 + KETBKTLC1ZNN001		KMDLMBK010020

Orderin	g Information	(M	AHA-PLUS Series)	Ordering Code Usage : MAP400-V50WGP			
	000		0	00	0	0	0
	Power Consumption	Input Voltage	CCT (K) Control System Fixtur		Fixture Color	Version	
МАН	500 = 500W 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
			V = DC100V (Remote Driver Type)		W = Wired(RS-485) M = Wired(DMX-512)		

% For Remote Driver type

Ordering In	formation (Remote	Ordering Code Usage : RED1K0-HVW			
	000		0	0	0
	Power Consumption		Input Voltage	Output Voltage	Control System
RED	1K0 = 1,000W 800 = 800W	-	C = AC 347 ~ 480V H = AC 200 ~ 277V K = AC 200 ~ 240V	V = DC 100V	W = Wired(RS-485) M = Wired(DMX-512) N = None