ALS®
Advantage Lighting Solutions

SPQ-G2 SPORTS LIGHT

CONSTRUCTION

Die-casting housing, compact design. Driver enclosure suitable for remote mounting, IP66 rated completely sealed against moisture and environmental contaminants. Light weight, EPA friendly.

OPTICS

Available in NEMA 3H x 3V and 4H x 4V distribution pattern, optics are precisely designed to shape the distribution, maximizing efficiency and maintaining high light level for various sports field applications.
Stock: 80CRI 5000K light engine.
Optional: 3000K, 4000K made to order.

500W / 600W

ELECTRICAL

-40°C minimum to +50°C (-40°F to 122°F) maximum operating temperature.
RoHS compliant electronic Class I drivers expected life of 150,000 hours.
>.9 power factor, <15% total harmonic distortion.
SPQ-G2-500W: Standard 120-277VAC Input 0-10V dimming.
SPQ-G2-600W / 850W / 1200W: Standard 200-480VAC Input 0-10V dimming.
Optional: SPQ-G2-500W - 200-480VAC Input 0-10V dimming.
Optional: SPQ-G2-600W - 120-277VAC Input 0-10V dimming.

850W / 1200W

SENSOR (OPTIONAL)

Laser Aiming device included.
Optional: CONTROL-LVFA - AVI-ON Bluetooth Mesh Controller.

MOUNTING

Robust designed yoke mount secured with 3/4" bolt, versatile mounting bracket designed for ease of installation and offers precise horizontal and vertical aiming capability.
Optional: Yoke to Slipfitter Adapter.
Optional: Square Beam Mount Bracket

STANDARD FINISH

UV stabilized polyester Black powder coat finish.

CERTIFICATION

IP66 Rated, Wet location label standard.
Meets Buy America Act requirements.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.
DLC® Premium (DesignLights Consortium Qualified)

WARRANTY

5 year warranty, see Limited Warranty for additional information.

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SPQ-G2 SPORTS LIGHT

ORDER INFORMATION						EXAMPLE : SPQ-G2 500 50 44 YM BK UD	
Fixture	Series	Power & LM	CCT	Distribution	Mounting	Finish	Input
SPQ-G2					YM	BK	
Accessories Options							

A SERIES

SPQ-G2	Modular Sports Light - Gen 2

B POWER & LM

CODE	POWER	LUMEN	LPW (AVG.)	CODE	POWER	LUMEN	LPW (AVG.)
500	500W	76,926	154	**850**	850W	127,854	151
600	600W	94,258	157	**1200**	1200W	184,027	153

C CCT

50	5000K (Defualt stock)	30	3000K (Made to order)
		40	4000K (Made to order)

D DISTRIBUTION

33	NEMA 3H x 3V (Made to order)
44	NEMA 4H x 4V (Defualt stock)

E MOUNTING

YM	Yoke Mount

F FINISH

BK	Black Finish

G INPUT

UD	120-277V input, 1-10V Dimming (Default for 500W model, Optional for 600W, 850W, 1200W)
HD	200-480V input, 1-10V Dimming (Default for 600W / 850W / 1200W, Optioonal for 500W)

H ACCESSORIES/OPTIONS

| blank	Aiming Laser included with fixture
AIA	Assembled in America, compliant with BAA (COTS)
MOUNT-SPM-SF	Yoke mount to Slipfitter adapter
MOUNT-SPM-SBM	Square Beam Bracket
SPM-POLE-BOX*	Pole Mount Wiring Box for Remote Driver Option
SURGE-LSP4-H	480V 10kV Surge Protector only for 500W
CONTROL-LVFA**	AVI-ON Bluetooth Mesh Control System
CORD-SPM-G2-EXT	164ft Remote Driver Extension Cord w/Water Tight Quick Connector***

*see page 4 for detail spec

**see page 7 for sensor spec

***For Remote Driver application, PART# CORD-SPM-G2-EXT must be used to meet warranty requirement.
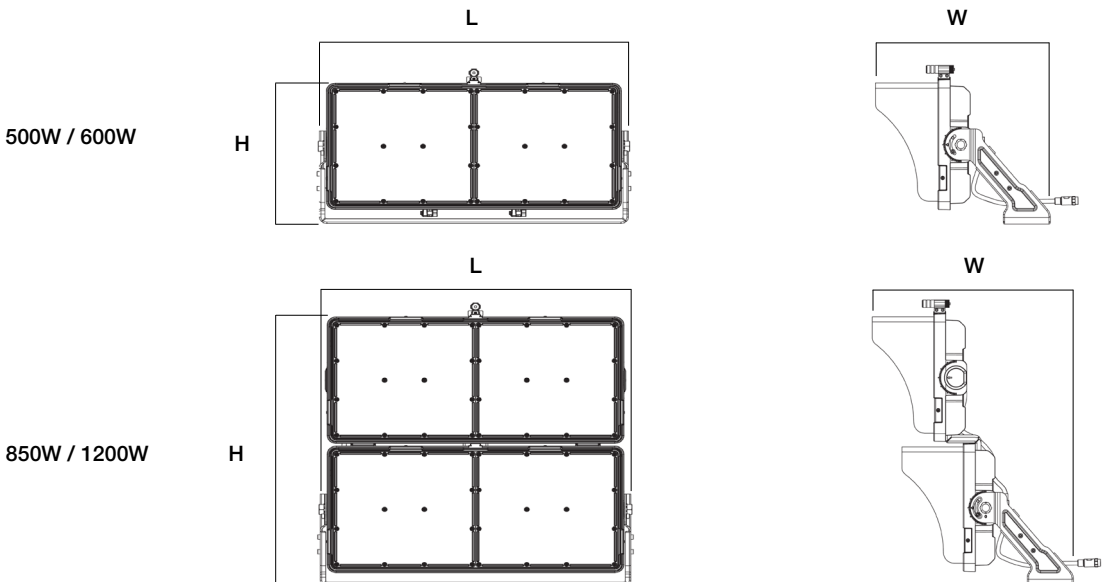
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DIMENSIONS (WITH POWER BOX ATTACHED)

Model	L	W	H
500W / 600W	24.8" (631mm)	19.6" (499mm)	12.8" (326mm)
850W / 1200W	24.8" (631mm)	22.4" (568mm)	24.7" (627mm)

500W / 600W
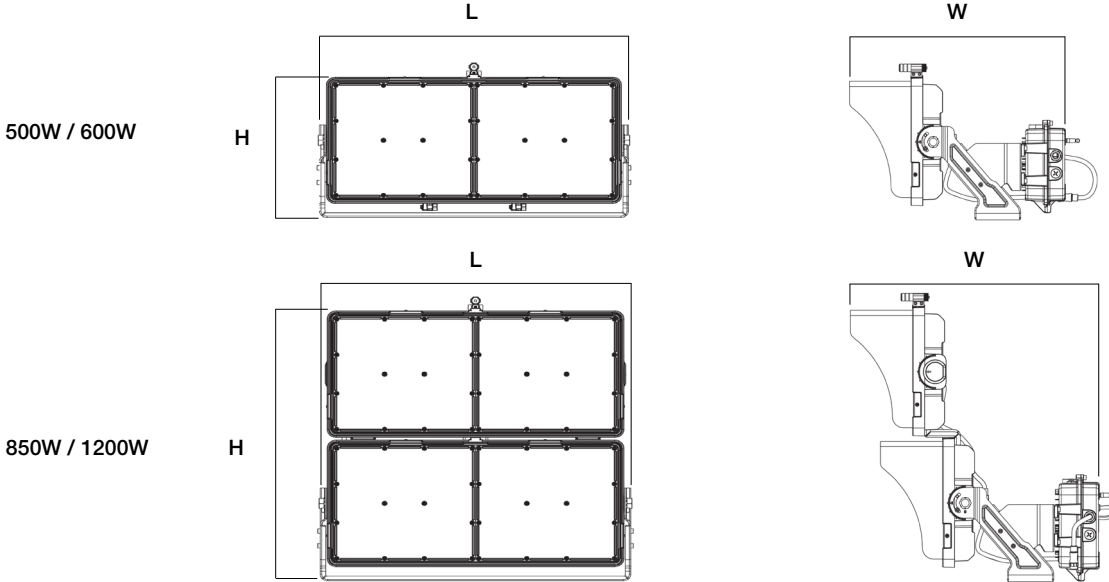
850W / 1200W

DIMENSIONS (WITH REMOTE POWER BOX)

Model	L	W	H
500W / 600W	24.8" (631mm)	15.6" (396mm)	12.8" (326mm)
850W / 1200W	24.8" (631mm)	18.3" (464mm)	24.7" (627mm)

500W / 600W

850W / 1200W

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DIMENSIONS (POLE MOUNT WIRING BOX AND REMOTE DRIVER)

Model	L1	W1	H1	L2	W2	H2	L3
Driver Enclosure for 500W / 600W	15.3" (388mm)	8.4" (214mm)	4.1" (103mm)	-	-	-	
Driver Enclosure for 850W / 1200W	18.5" (470mm)	9.6" (244mm)	4.1" (103mm)	-	-	-	
Pole Box	-	-	-	47.7"(1211mm)	6.2" (158mm)	3.8" (97mm)	47.2"(1200mm)

L3

L2

Pole Box

L1

Driver Enclosure

H2

W2

W1

H1

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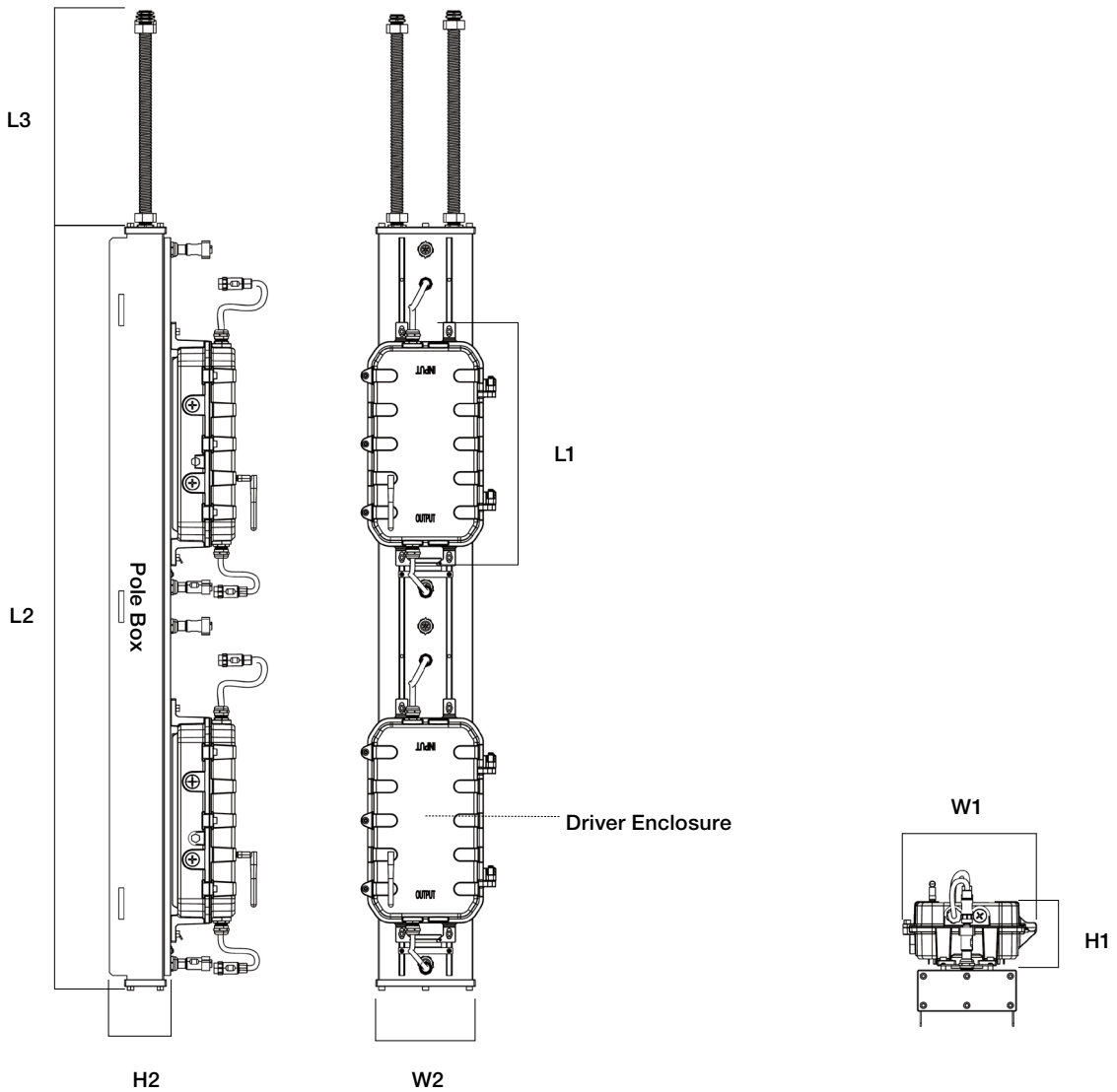
DIMENSIONS (MOUNT)

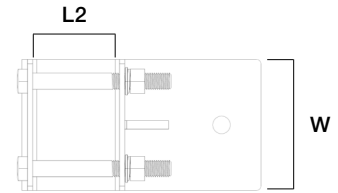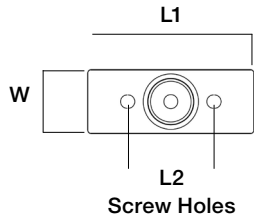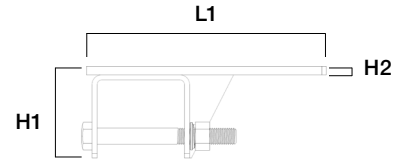| Model	L1	L2	W	H1	H2
MOUNT-SPM-SF	10.31" (262mm)	5.35" (136mm)	3.94" (100mm)	4.25" (108mm)	4.21" (107mm)
MOUNT-SPM-SBM	11.22" (285mm)	4.02" (102mm)	5.98" (152mm)	4.20" (107mm)	0.39" (10mm)

H1

H2

ø 2.52"
ø 2.87"

MOUNT-SPM-SF

MOUNT-SPM-SBM

L1

H2

H1

L1

W

L2
Screw Holes

L2

W
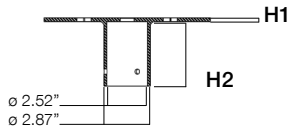
EPA (ft^2)
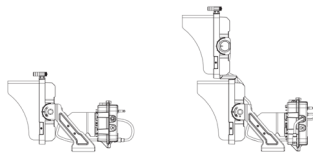
Mounting	Yoke	Yoke
500W / 600W	1.820	
850W / 1200W		3.382

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PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST. TYPE	4000K		5000K	
			LUMEN	LPW	LUMEN	LPW
500W	100-277V, 480V	44	76213	152	76926	154
600W	100-277V, 480V	44	93543	156	94258	157
850W	100-277V, 480V	44	126453	149	127854	150
1200W	100-277V, 480V	44	183547	153	184027	153

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-LVFA (see page 8 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App

CONTROL-LVFA

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CONTROL-LVFA SPEC
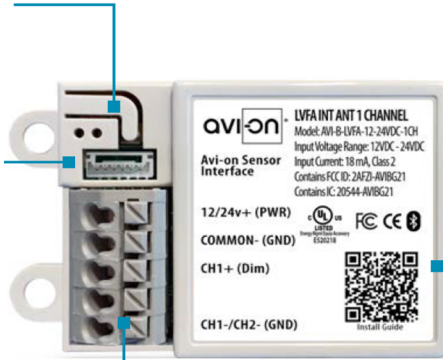
Status LEDs & Config Button
Quick and easy validation of wiring and network

Direct Connect™ Sensor Port
Simple and cost-effective addition to Avi-on sensors

Terminal Blocks & Mounting Tabs
Faster, easier and lower cost installation eliminating connectors

Internal Antenna
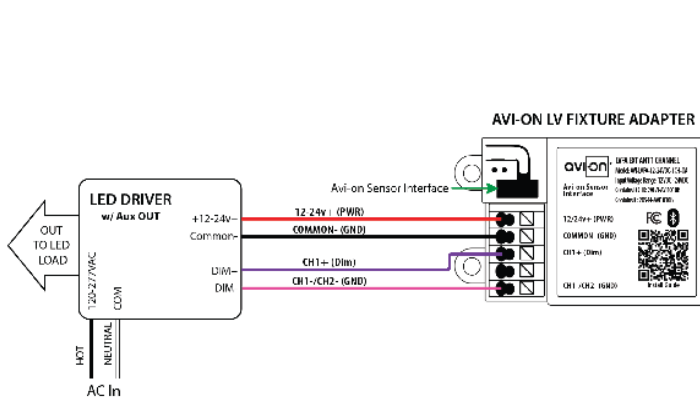Improved performance and eliminates risk of accidentally cutting a hanging wire

avi-on
Avi-on Sensor Interface

LVFA INT ANT 1 CHANNEL
Model: AVI-B-LVFA-12-24VDC-1CH
Input Voltage Range: 12VDC - 24VDC
Input Current: 18 mA, Class 2
Contains FCC ID: 2AFZI-AVIBG21
Contains IC: 20544-AVIBG21

12/24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

SPECIFICATIONS

INPUT VOLTAGE:	12-24VDC
CURRENT:	15mA without a Sensor
	19mA with a DC PIR Sensor
	48mA with a DC Microwave Sensor
0-10V DIMMING:	12-24VDC
SIZE:	2.30in x 1.43in x 0.75in
	(58.2mm x 36.4mm x 19mm)
MOUNTING:	Removable mounting tabs
WEIGHT:	0.45 oz (16g)
OPERATING TEMP:	-22°F to +158°F (-30°C to + 70°C)

RADIO FREQUENCY:	2.4GHz
WIRELESS STANDARD:	BLE 4.2 with Mesh
POINT TO POINT RANGE*:	80ft with obstructions
	350ft unobstructed
SECURITY:	AES 128-bit encryption for device to device communication
	AES 256-bit encryption for device to cloud communication
WARRANTY:	5 years; 10 years optional
REGULATORY:	FCC: 2AFZI-AVI1010 B
	IC: 20544-AVI1010 B
	BQB: D031801, DID: 86303
	UL 916, 2043 (Plenum Rated)

*When communicating through the mesh, range is essentially unlimited (5000ft+)

WIRING DIAGRAM

AVI-ON LV FIXTURE ADAPTER

LED DRIVER w/ Aux OUT
OUT TO LED LOAD
+12-24v~
Common-
DIM-
DIM
120-277VAC
COM
HOT
NEUTRAL
AC In

Avi-on Sensor Interface

12-24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

Fixture adapter powered by LED driver auxiliary output

LOW VOLTAGE FIXTURE ADAPTER

12 VDC Power Supply
120-277 VAC
COM
+12-24v~ Common

Avi-on Sensor Interface

12-24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1- (GND)

LED Driver
OUT TO LED LOAD
120-277VAC
COM
BLACK (hydra y)
WHITE (hydra y)
HOT
NEUTRAL
AC In
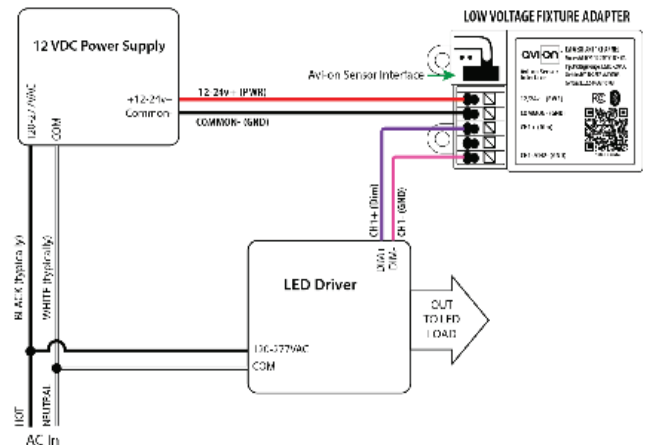
Fixture adapter connected to LED driver and using power supply

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