

Client: Project: Type: Quantity:

CONSTRUCTION

Decorative die-cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management.

Door assembly hinges to side, cast aluminum housing with three 1/2" conduit entries (on top and 2 sides), for surface conduit.

OPTICS

Full cut-off distribution conform to dark sky requirement - individual acrylic LED optics provide IES Type IV distribution.

CCT selectable light engine available with 3000K ~ 5000K (80CRI).



80+ CRI Lumileds LED.

WPA-G2-70 output selectable available with 28W / 42W / 56W / 70W.

WPA-G2-125 output selectable available with 50W / 75W / 100W / 125W.

-40°C up to 45°C (-40°F up to 113°F) maximum operating temperature.

>54,000 hr LED at L70.

Driver operates at 120-277V input, 50/60Hz, <20% THD, 0.9 power factor.

Optional 10kV surge protector.

Optional 347V / 480V Driver.

Optional Self-Diagnostic emergency back up.

SENSORS (OPTIONAL)

SENSOR-820 Integral PIR on/off/dimming/photosensing.

SENSOR-823 Integral PIR on/off/dimming/photosensing.

SENSOR-BLE-619 Integral PIR ALS Control bluetooth/on/off/dimming/photosensing.

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

MOUNTING

Wall mount over electrical box or via surface conduit.

STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, and White, or custom RAL#

CERTIFICATION

Wet Location Listed.

Meets Buy America Act requirements.

IDA compliant: with 3000K color temperature selection.

Title 24 compliant; see local ordinance for qualification information.

All luminaires are built to UL1598 standards and bear appropriate cULus labels.

DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY

5 year warranty, see Limited Warranty for additional information.



SHIPPING DATA

 Product
 Measurement
 Weight

 WPA-G2-70
 16"L x 9"W x 10"H
 8 lb

 WPA-G2-125
 16"L x 9"W x 10"H
 8 lb



















ORDER INFORMATION EXAMPLE: WPA G2 70 MC FC DB UNVD

Fixture Series Power & LM CCT Distribution Finish Input

WPA-G2 MC FC

Accessories

Options

A SERIES

WPA-G2 Selectable Full Cutoff Wall Pack Generation 2

B POWER & LM

Code Power LN

70 Selectable 28W / 42W / 56W / 70W 4,400lm ~ 11,000lm 125 Selectable 50W / 75W / 100W / 125W 7,600lm ~ 19,000lm

С ССТ

SC Selectable 3000K / 4000K / 5000K

DISTRIBUTION

FC Full Cutoff

FINISH

Standard

DB Dark Bronze

Custom Color

CC BK Black GM Graphite Metallic GR Gray

SV Silver WH White RAL#

F INPUT

UNVD 120-277V, 0-10V dimming **HVLD** 347-480V, 0-10V dimming

G ACCESSORIES/OPTIONS

AIA Assembled in America, compliant with BAA (COTS)

EMB-8W-B* 8W Emergency Battery 170VDC Forward Voltage

EMB-18W-B* 18W Integral Self-Diagnostic Emergency Battery, Operating Temp: 0°C ~ 50°C

EMB-18W-C-B* 18W Integral Self-Diagnostic Cold Weather Emergency Battery, Operating Temp -20°C ~ 50°C

REMOTE-RC100 Handheld Remote Commissioning Tool for SENSOR-823, 820 Series

SENSOR-820-M8-L3* Integral PIR on/off/dimming/photosensing (120-480V)

SENSOR-823-D3* Integral PIR on/off/dimming/photosensing (120-277V) / L3: up to 40FT, L4: up to 8FT

SENSOR-BLE-619-L3 / L4* Integral PIR Bluetooth Daylight Sensor (ALS Control Mobile App) / L3: up to 40FT, L4: up to 8FT

SURGE-LSP4-U / H 10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input

CONTROL-LVFA* AVI-ON Bluetooth Mesh Control System (12V DC Power by Driver)

*see page 5 for spec

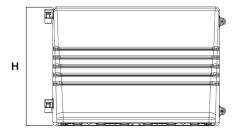


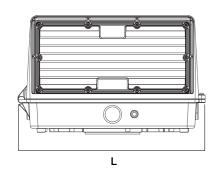
DIMENSIONS

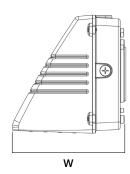
Model L W H

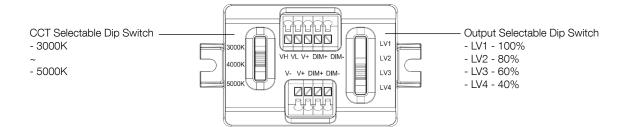
WPA-G2-70

WPA-G2-125 14.2" (361mm) 8.7" (223mm) 9.2" (235mm)









Dip Switch located in back box



PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	@ 4000K		
STOTEM WATTS	VOLIAGE	LUMENS	LPW	
WPA-G2-70W @ 28W	120-277V	4806	171	
WPA-G2-70W @ 42W	120-277V	7059	168	
WPA-G2-70W @ 56W	120-277V	9154	163	
WPA-G2-70W @ 70W	120-277V	11097	158	
WPA-G2-125W @ 50W	120-277V	8220	164	
WPA-G2-125W @ 75W	120-277V	12109	161	
WPA-G2-125W @ 100W	120-277V	15712	157	
WPA-G2-125W @ 125W	120-277V	19099	153	

PERFORMANCE DATA / DLC CODE

SYSTEM WATTS	сст	VOLTAGE	LUMEN	LPW	QTY ON PALLET	PART NUMBER	DLC PRODUCT ID / ORDER CODE	DLC CLASS
WPA-G2-70	3000K ~ 5000K	120-277V	11097	158	96	WPA-G2-70SCFC-DBUNVD	Pending	DLC 5.1 Premium
WPA-G2-125	3000K ~ 5000K	120-277V	19099	153	96	WPA-G2125SCFC-DBUNVD	Pending	DLC 5.1 Premium



SENSOR SPEC

Model	Туре	Mounting	Coverage	Input	Function	Programmable
SENSOR-823	PIR	L3 - 40FT L4 - 8FT	30FT radius 24FT radius	Universal	On/Off/Dimming	REMOTE-RC100
SENSOR-820	PIR	up to 40FT	30FT radius	100 ~ 480V	On/Off/Dimming Daylight Harvesting	REMOTE-RC100
SENSOR-BLE-619 (see page 9 for detail)	PIR	L3 - 40FT L4 - 8FT	30FT radius 24FT radius	12V DC	Bluetooth Mesh On/Off Daylight	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 8 for detail)	-	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App







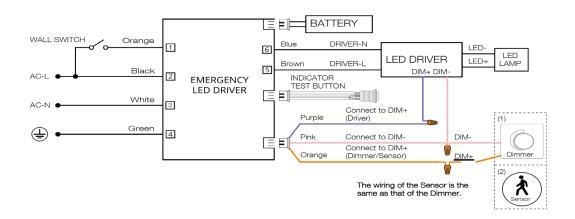


SENSOR-823 SENSOR-820

SENSOR-BLE-619 CONTROL-LVFA

EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-8W-B	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-18W-B	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-18W-C-B	90mins	100-347VAC	170VDC	18W	-20°C ~ 50°C -4°F ~ 122°F	Factory or Field Install





DRIVER SPECIFICATION

WPA-G2-70 Driver Spec

- Input: 100-277Vac / 347~480Vac

- Output Wattage: 80W Max

- Output Voltage: 63Vdc Max - Output Current: 1130mA Max

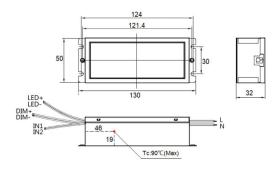
- Power Factor: 0.91

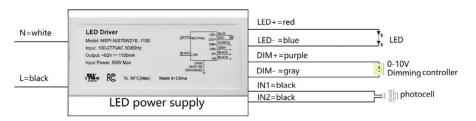
- THD: 17% MAX - Dimming: 0-10V Dim to Off

- AUX Output: 12Vdc

- MAX Temp: 90°C







WPA-G2-125 Driver Spec

- Input: 100-277Vac / 347~480Vac

Output Wattage: 128W MaxOutput Voltage: 130Vdc Max

- Output Current: 850mA Max

- Power Factor: 0.93

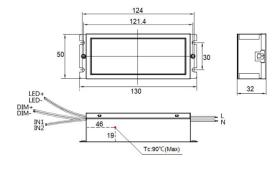
- THD: 17% MAX

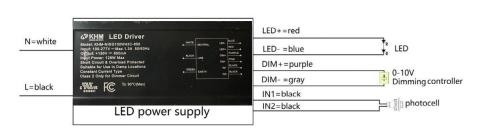
- Dimming: 0-10V Dim to Off

- AUX Output: 12Vdc

- MAX Temp: 90°C









EMB SPECIFICATION

CONSTRUCTION

Red Metal Casing with seperate external battery with quick connector.

ELECTRICAL

Universal Input: 100 ~ 347V AC, 50/60Hz

Input Current: 150mA Recharge Power: 10W Output Voltage: 170V DC

Surge Protection: Line-Neutral 3KV Emergency Power: 8W / 18W

Standard Operating Temperature: EMB-8W-B / EMB-18W-B: 5°C ~ 50°C (41°F ~ 122°F) / EMB-18W-C-B: -20°C ~ 50°C (-4°F ~ 122°F)

Recharge Time: 24 Hours Discharge Time: 90 Mins

Smart battery built-in over temperature, over charge, over discharge protections.

Self Diagnostic Li-ion Battery

The integrated Self- Diagnostic circuitry will automatically conduct monthly 30-second and annual 90-minute tests to verify proper emergency capability per Life Safety Code requirements. NFPA 101, Life Safety Code Outlines the following schedule:

Monthly- During AC mode, the system conducts a (30)seconds self-discharge test of the emergency led driver every 30 days. And automatically restore to normal charging after (30)seconds dis-charged. Annually- During AC mode, the system conducts a (90)minutes self-discharge test of the emergency led driver every 365 days. And automatically restore to normal charging after fully dis-charged.

DIMENSIONS

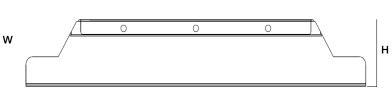
MODEL	L	L2	W	W2	Н	H2
EMB-8W-B	7.32" (186mm)	4.25" (108mm)	1.50" (38mm)	1.63" (42mm)	0.99" (25mm)	0.99" (25mm)
EMB-18W-B	7.32" (186mm)	7.07" (179mm)	1.50" (38mm)	1.63" (42mm)	0.99" (25mm)	0.99" (25mm)
EMB-18W-C-B	7.32" (186mm)	7.07" (179mm)	1.50" (38mm)	2.27" (58mm)	0.99" (25mm)	1.29" (33mm)

DRIVER

L



L2



BATTERY

W2





CONTROL-LVFA SPEC



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

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

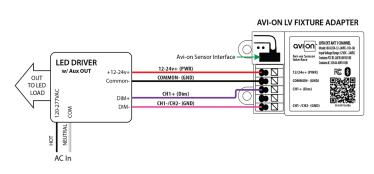
communication

WARRANTY: 5 years; 10 years optional **REGULATORY:** 5 CC: 2AFZI-AVI1010 B

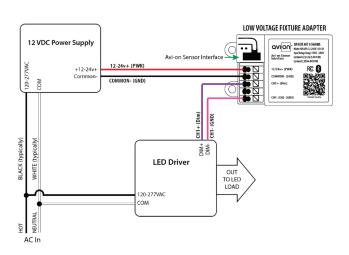
IC: 20544-AVI1010 B BQB: D031801, DID: 86303

BQB: D031801, DID: 86303 UL 916, 2043 (Plenum Rated)

WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

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



SENSOR-BLE-619 BLUETOOTH PIR SENSOR

Client: Project: Type: Quantity:

FEATURE

- Installation: Factory Install Sensor integral to fixture, lens external
- Commissioning: Wirelessly through ALS Control Mobile App (iOS / Android)
- Certification: DLC 5.1 Networked Lighting Control System
- Control: Hold time, High-Low setting, continuous Bi-level dimming, manual/auto on/off
- Sensor: Motion (Occupancy/Vacancy/Manual) and Daylight
- Zone Control: Zoning and Grouping control, Scheduling



SPECIFICATIONS

SENSOR TYPE: Passive Infrared Sensor (PIR)

WIRELESS STANDARDS: Bluetooth SIG Mesh
INPUT VOLTAGE: 12-24VDC, >50mA

CONTROL OUTPUT: 0-10V

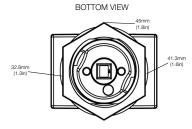
OPERATING TEMP: -40°F ~ +158°F (-40°C ~ +70°C)

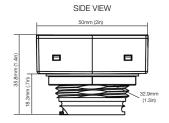
COMMISSIONING RANGE: 50FT

BLUETOOTH RANGE: Integral antenna up to 100FT **DETECTION ANGLE:** Vertical 90° x Horizontal 360°

MOUNTING HEIGHT: 8 - 40FT WARRANTY: 5 years IP RATING: IP65

DIMENSIONS







COVERAGE PATTERNS

