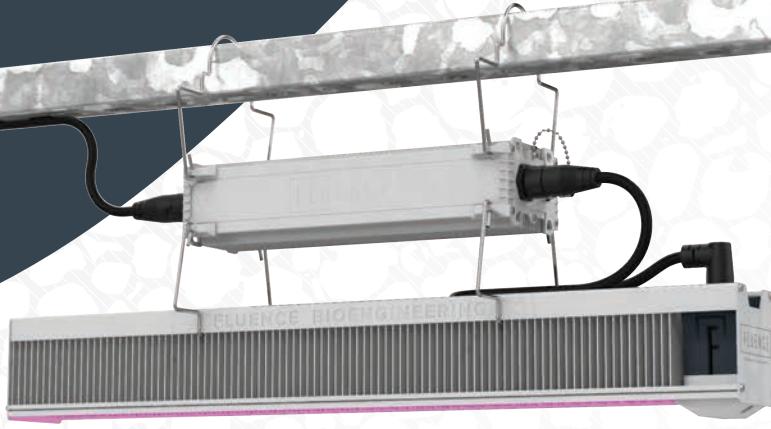


# USER & INSTALLATION GUIDE

## VYPR 3x GLOBAL

FLUENCE

BY OSRAM



### THANK YOU FOR CHOOSING FLUENCE!

Please confirm that all hardware and accessories received are correct for your VYPR application before you begin the installation.

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## 1. SYSTEM HARDWARE AND ACCESSORIES

### 1.1 Light fixture and Power Supply

#### SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY AMERICAS

FAMILY		MODEL	PhysioSpec™ SPECTRUM		INPUT VOLTAGE		PACKAGING	
VR	VYPR	3X Gen 3X	BW3	BROAD R3 (Greenhouse)	LVG	120-277 V AC	B	Bulk Pack
			BW4	BROAD R4 (Indoor)	HVE	347 V AC	S	Single Pack
			BP6	BROAD R6	5	480 V AC		
			BP8	BROAD R8				
			HR9	DUAL R9B High Efficacy				
			DR9	DUAL R9B				
			DR5	DUAL R5B (Antho)				

PhysioSpec™ SPECTRUM		SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply		
					PSU2 LVG 320 W 120-277 V AC	PSU2 HVE 320 W 347 V AC	PSE2 HV 320 W 480 V AC
<b>BROAD R3 (Greenhouse)</b>		VR-3X-BW3	10542	6.2 A	71531	71534	10289
<b>BROAD R4 (Indoor)</b>		VR-3X-BW4	10543				
<b>BROAD R6</b>		VR-3X-BP6	10519	5.9 A	10534	10535	10546
<b>BROAD R8</b>		VR-3X-BP8	10518				
<b>DUAL R9B High Efficacy</b>		VR-3X-HR9	10533				
<b>DUAL R9B</b>		VR-3X-DR9	10517				
<b>DUAL R5B (Antho)</b>		VR-3X-DR5	10530				

#### SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY EUROPE

FAMILY		MODEL	PhysioSpec™ SPECTRUM		INPUT VOLTAGE		PACKAGING	
VR	VYPR	3X Gen 3X	BW3	BROAD R3	LVG	230 V AC	B	Bulk Pack
			BW4	BROAD R4	HVE	400 V AC	S	Single Pack
			BP6	BROAD R6				
			BP8	BROAD R8				
			HR9	DUAL R9B High Efficacy				
			DR9	DUAL R9B				
			DR5	DUAL R5B (Antho)				

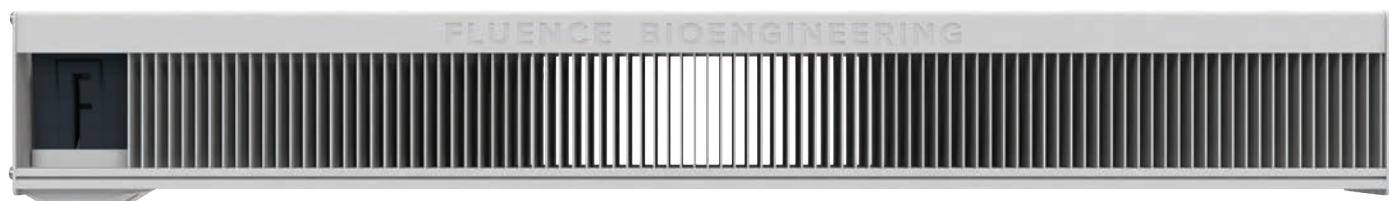
  

PhysioSpec™ SPECTRUM		SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply	
					PSU2 LVG 320 W 230 V AC	PSU2 HVE 320 W 400 V AC
<b>BROAD R3</b>		VR-3X-BW3	10542	6,2 A	71531	71534
<b>BROAD R4</b>		VR-3X-BW4	10543			
<b>BROAD R6</b>		VR-3X-BP6	10519	5,9 A	10534	10535
<b>BROAD R8</b>		VR-3X-BP8	10518			
<b>DUAL R9B High Efficacy</b>		VR-3X-HR9	10533			
<b>DUAL R9B</b>		VR-3X-DR9	10517			
<b>DUAL R5B (Antho)</b>		VR-3X-DR5	10530			

## SYSTEM HARDWARE

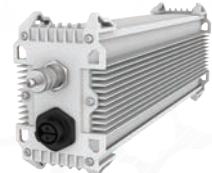
A VYPR 3X Light Fixture

A



B Power Supplies

B1 PSU2 LVG 320 W 120-277 V AC



B1

B2 PSU2 HVE 320 W 347-400 V AC



B2

B3 PSE2 HV 320 W 480 V AC (5)

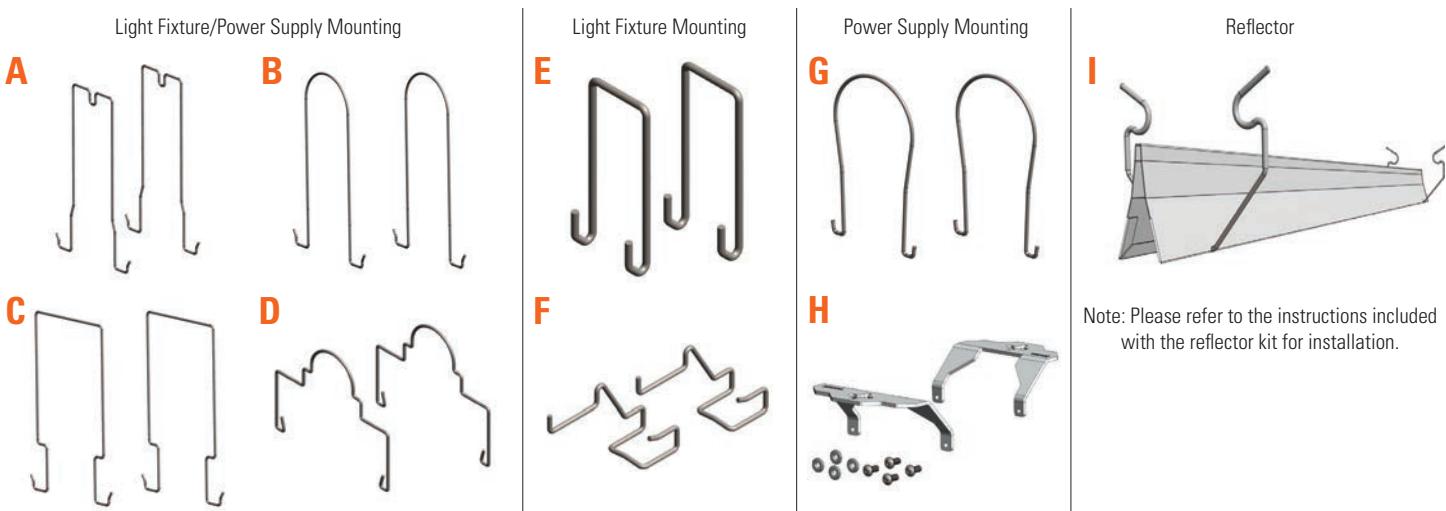


B3

## 1. SYSTEM HARDWARE AND ACCESSORIES

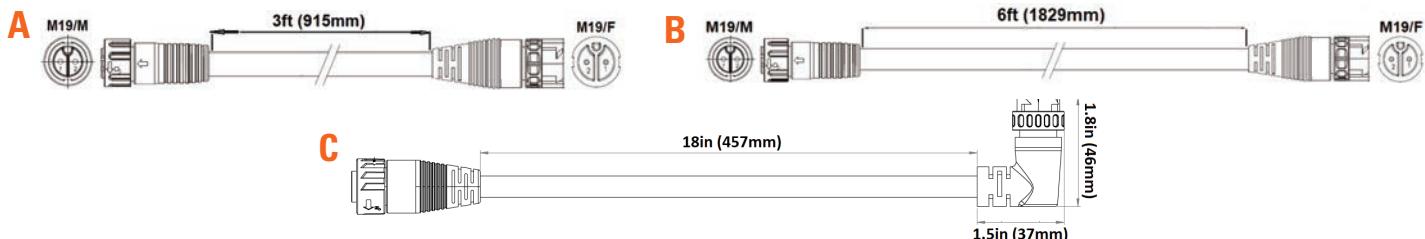
### 1.2 Mounting Hardware (Sold and Packaged Separately)

MOUNTING HARDWARE	Quantity per VYPR 3X	Power Supply PSU2 LVG 320W 120-277 V AC	Power Supply PSU2 HVG 320W 347-400 V AC	Power Supply PSE2 HV 320W 480 V AC	Ordering Code	QTY/ Carton
A Unistrut Wire Hanger (for strut width ≤ 1.63" / 41 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10120-20	20 Kits
B Pipe Wire Hanger (for pipe diameter ≤ 1.75" / 44 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10121-20	20 Kits
C Square Wire Hanger (for truss width ≤ 2.75" / 70 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10119-20	20 Kits
D Combo Mount Wire Hanger (use with Right Angle DC Extension Cable)	1 Kit	1 Kit	1 Kit	N/A	AMV3-10569-20	20 Kits
E Perpendicular Mount Wire Hanger (for strut 25x50 mm)	1 Kit	N/A	N/A	N/A	AMV3-10572-20	20 Kits
F Parallel Mount Bracket (for strut 25x50 mm)	1 Kit	N/A	N/A	N/A	AMV3-10571-20	20 Kits
G PSE2 HV 480V 320W Power Supply Pipe Wire Hanger	N/A	N/A	N/A	1 Kit	AMPS-10570-20	20 Kits
H PSU2 LVG, HVE 320W Power Supply Surface Mount Kit	N/A	1 Kit	1 Kit	N/A	AMPS-10491-10	10 Kits
I VYPR 3X Reflector Kit 22-inch	1 Kit	N/A	N/A	N/A	ARV2-10464-40	40 Kits
		N/A	N/A	N/A	ARV2-10516-10	10 Kits



### 1.3 DC Power Cables (Sold and Packaged Separately)

DC POWER CABLES (Fixture to Power Supply) GLOBAL	Quantity per Power Supply	Ordering Code	QTY/ Carton
A 3-FT (0.91 m) DC Extension Cable, M19 Push Lock	1 pc	CDCG-70720-10	10 pcs
B 6-FT (1.83 m) DC Extension Cable, M19 Push Lock	1 pc	CDCG-70721-10	10 pcs
C 18-IN (0.46 m) Right Angle DC Extension cable, M19 Push Lock - for Combo Mount or Parallel Mount	1 pc	CDCG-71591-10	10 pcs



### 1.4 DC Dimming Cables (Sold and Packaged Separately)

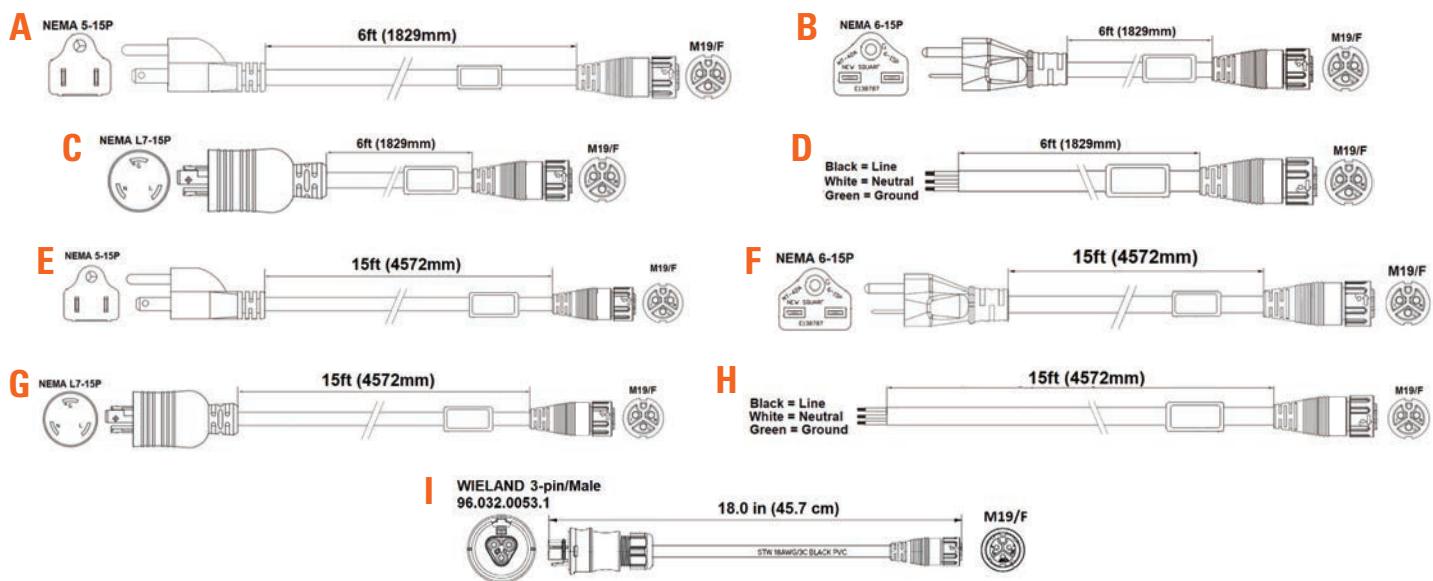
DC DIMMING SIGNAL CABLE (Power Supply to dimmer or dimming control panel)	Quantity per Power Supply	Ordering Code	QTY/ Carton	Region
A 11-IN (0.28 m) dimming signal cable, pigtail, M12 connector (for PSU2)	1 pc	CDMA-71561-10	10 pcs	Americas
B 80 cm (31.5 IN) dimming signal cable, CCA, pigtail, M12 connector	1 pc	CDME-71526-10	10 pcs	Europe
C 10-IN (0.25 m) dimming signal cable, pigtail, M16 connector (for PSE2 HV 480V)	1 pc	CDMA-70972-10	10 pcs	Americas
D 5-FT (1.52 m) dimming signal cable, pigtail, M16 connector (for PSE2 HV 480V)	1 pc	CDMA-71388-10	10 pcs	Americas



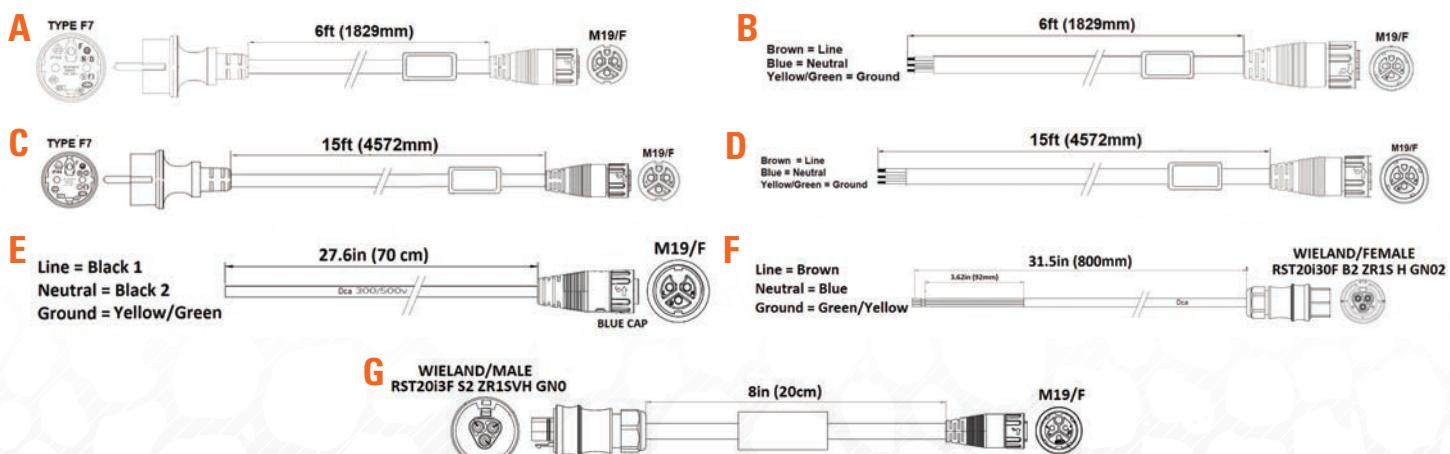
## 1. SYSTEM HARDWARE AND ACCESSORIES

### 1.5 AC Power Cables (Sold and Packaged Separately)

AC POWER CABLE (Power Supply to AC Line) <b>AMERICAS</b>		Quantity per Power Supply	Ordering Code	QTY/ Carton
<b>A</b>	6-FT (1.83 m) AC Extension Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 pc	CACA-70748-10	10 pcs
<b>B</b>	6-FT (1.83 m) AC Extension Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 pc	CACA-70750-10	10 pcs
<b>C</b>	6-FT (1.83 m) AC Extension Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 pc	CACA-70752-10	10 pcs
<b>D</b>	6-FT (1.83 m) AC Extension Cable, Pigtail, M19 Push Lock, Max 480 V AC	1 pc	CACA-70754-10	10 pcs
<b>E</b>	15-FT (4.57 m) AC Extension Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 pc	CACA-70749-05	5 pcs
<b>F</b>	15-FT (4.57 m) AC Extension Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 pc	CACA-70751-05	5 pcs
<b>G</b>	15-FT (4.57 m) AC Extension Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 pc	CACA-70753-05	5 pcs
<b>H</b>	15-FT (4.57 m) AC Extension Cable, Pigtail, M19 Push Lock, Max 480 V AC	1 pc	CACA-70755-05	5 pcs
<b>I</b>	Wieland AC Connector Adapter for Power Supply, STW PVC, M19 Push Lock, 18-IN (0.46 m), Wieland Part #: 96.032.0053.1 (Male)	1 pc	CACA-71467-10	10 pcs

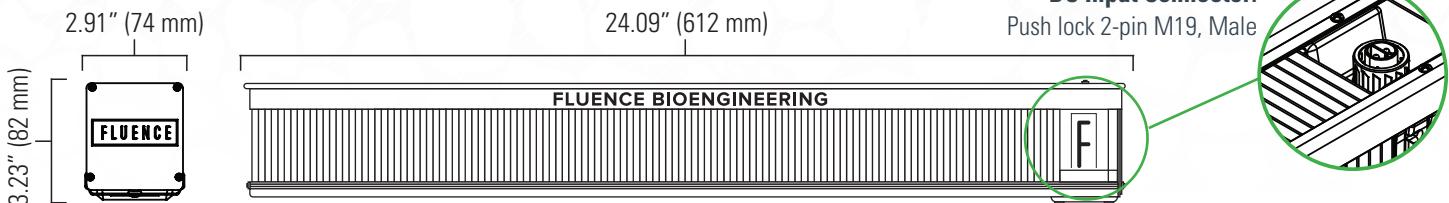


AC POWER CABLE (Power Supply to AC Line) <b>EUROPE</b>		Quantity per Power Supply	Ordering Code	QTY/ Carton
<b>A</b>	1.83 m (6 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230V AC	1 pc	CACE-70774-10	10 pcs
<b>B</b>	1.83 m (6 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries)	1 pc	CACE-71161-10	10 pcs
<b>C</b>	4.57 m (15 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230V AC	1 pc	CACE-70775-05	5 pcs
<b>D</b>	4.57 m (15 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries)	1 pc	CACE-71162-05	5 pcs
<b>E</b>	70 cm (27.6 IN) AC Cable, DCA, pigtail, M19 Push Lock (230/400V CE application)	1 pc	CACE-71411-10	10 pcs
<b>F</b>	80 cm (31.5 IN) AC Cable, DCA, pigtail (use with adapter cable) Wieland connector Part #: 20130F B2 ZR1S H GN02 (Female)	1 pc	CACE-71650-10	10 pcs
<b>G</b>	Wieland AC Connector Adapter for Power Supply, DCA cable, M19 Push Lock, 20 cm (8 IN), Wieland Part #: RST2013F S2 ZR1SVH GN0 (Male)	1 pc	CACE-71576-10	10 pcs



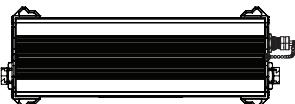
## 2. DIMENSIONS AND WEIGHT

### VYPR 3x



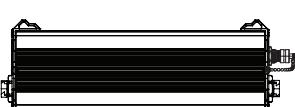
### PSU2 LVG

320W  
120-277 V AC  
P/N 71531, 10534



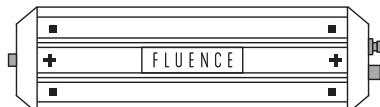
### PSU2 HVE

320W  
347-400 V AC  
P/N 71534, 10535



### PSE2 HV (5)

320W  
480 V AC  
P/N 10289, 10546



### VYPR 3x

Length	Width	Height	Weight	Region
24.09" 612 mm	2.91" 74 mm	3.23" 82 mm	4.8 lb 2.2 kg	Global

### Power Supplies

Part Number	DC Current	Type	AC Input	Length	Width	Height	Weight	Region
71531	6.2 A	PSU2 LVG	120-277 V 50/60 Hz	12.60" 320 mm	4.29" 109 mm	2.56" 65 mm	4.9 lb 2.3 kg	Global
10534	5.9 A		347-400 V 50/60 Hz	12.60" 320 mm	4.29" 109 mm	2.56" 65 mm	4.9 lb 2.3 kg	
71534	6.2 A		480 V 50/60 Hz	21.87" 555 mm	6.24" 159 mm	2.88" 73 mm	8.2 lb 3.7 kg	
10535	5.9 A							Americas
10289	6.2 A	PSE2 HV (5)						
10546	5.9 A							

## 3. CAUTIONS AND WARNINGS

### WARNING

Risk of electrical shock.  
To reduce the possibility of serious injury, always take the proper precautions and unplug the fixture before moving or cleaning.

### CAUTION

LED and heatsink surfaces may be hot. Allow sufficient cooling time before handling.

### CAUTION

To reduce the risk of overheating or fire, never place operating fixtures face down on a flush surface. Always allow for adequate ventilation of fixtures and power supplies.

### CAUTION

To prevent eye damage, avoid looking directly at the unshielded LEDs. **Practice safety precautions recommended by IEC standard 62471 for Photobiological Risk Group 1.**

### CALIFORNIA PROPOSITION 65 WARNING

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**ADVERTENCIA:** Este producto contiene productos químicos reconocidos por el estado de California que provocan cáncer, defectos de nacimiento u otros daños reproductivos.

For more information:  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



ETL Rating: VYPR Series fixtures are rated suitable for wet locations. A "wet location" is defined as an interior or exterior location in which water or other liquids may drip, splash or flow on or against the electrical components of a lighting fixture. VYPR Series fixtures and power supply are certified to meet UL standards (ETL) from the Intertek safety consulting and certification company. Systems are cETL listed and are rated IP66 by IEC standard 60529.

The light source of this luminaire is not replaceable; when the light source reached its end of life the whole luminaire shall be replaced.



Horticulture Lighting, not suitable for household room illumination.



1 PPF calculations compiled using integrating sphere measurements and typical spectroradiometric data for each LED to determine typical fixture performance. Actual photometric results may vary within the LED manufacturer's bin tolerance.

2 Wattage values are typical expected values. Fluence maintains a tolerance of ±10% on flux and power specifications. Target light levels can vary from projected levels depending on ambient temperature, room reflections values and dirt accumulation.



### 3. CAUTIONS AND WARNINGS

prevádzke nikdy nekladte prednou stranou nadol na rovný povrch. Vždy zabezpečte dostatočnú ventiláciu výrobkov a napájajúcich zdrojov.

#### OPÓZORILO (SI)

Nevarnost elektrického udara. Orogdie pred premikanjem ali čiščeniem vedno pravilne zaščítite in izklopite napajanie, s čimer zmanjšate možnost resnih poškod. Čeprav imata orogdie in napajanje oceno UL 1598 Wet Location, nista namenjeni uporabi pod vodo. Če sta modul ali ohišje napajalnika pod vodo gladino, najprej odstranite prekinjevalnik električnega kroga, nato odklopite potopljene komponente, preden izdelek vzmete iz vode. Ne glejte neposredno v nezakrite LED-luci, s čimer preprečite poškodbe oči. Površina LED-luci in hladilnega telesa je lahko vroča. Pred uporabo pusitie, da se ohladi. Deluječe opreme nikoli ne postavite z licem navzdol na ravno površino, da preprečite tveganje pregrevanja ali požara. Vedno poskrbite za primereno prezračevanje opreme in napajalnika.

#### UPOMIENKA (RS)

Rizik od elektrického udara. Da biste smanjili možnosť ozbiljnejšej povrede, uvek preduzmite odgovarajúce preventívne mere i siskujete opremu pre premeštanie i čiščenie. Oprema i elektrickom napajaniu predviedenu su za rad na vlažnomi lokacijskami prema standartu UL 1598, ali nisu projektovani za potapanje vodu. U slúčaju da se kućište modula ili elektrickom napajaniu potopí, prvo odviete osigurajte, a zatím siskujete potopljene komponente pre nego što ih izvadite z vode. Da biste sprecili ostecenie vida, izbegavajte da gledate direktno u nezaštitene LED indikatoru. Površine LED indikatora i hladnjaka mogu biti vruće. Ostavite dovoljno vremena za hlađenje pre rukovanja. Da biste smanjili rizik od pregrevanja ili požara, radne elemente nikada stavljavajte okrenute licem ka ravnoj površini. Uvek omogućite dovoljnu ventilaciju opreme i elektricnog napajanja.

#### VARNING (SE)

Risk för elektriskt stötar. För att minska risken för allvarliga personskador ska du alltid vidta lämpliga försäkrighetstågder och koppla ur fikturen innan du flyttar eller rengör den. Fikturen och strömförslöjning är godkänd enligt UL 1598 för användning i våtrum, men de är inte utformade för att nedränsas i vatten. Om modulen eller strömförslöjningshjälpet blir nedränsat ska du först stänga av kretsbyrån och sedan koppla ut den för att undvika komponenterna innan du lyfter upp dem ur vattnet. Titta aldrig direkt på de oskyddade lysdiodeerna eftersom det kan leda till ögonskador. Ytor med lysdioder eller kylflänsar kan vara hetta. Avsätt tillräcklig tid för nedkylning före hantering. Minska risken för överhettning eller brand genom att aldrig placera fikturen i drift med framsidan nedåt på en plan yta. Säkerställ alltid att fikturen och strömförslöjningsenheter har tillräcklig ventilation.

#### UYARI (TR)

Elektrik çarpması riski. Ciddi yaralarımları önlemek için her zaman gerekli önlemleri alm ve hareket ettiğimden veya temizlemeden önce dizeñenin çıkarın. Kablo ve güç kaynağı ıslak yerlerde kullanılmamıştır. Fikirler ve strömförslöjning çok gerekli UL 1598'le için kullanıldığından, men de de içtenlikle formasyonu olmamıştır. Bu nedenle devre kesişenin çıkarın ve arındırın su altında kalan bileyenlerin bağlanması kesin. Göze zarar vermemesi için koruyucusuz LED'lere doğrudan bakmayın. LED ile işlenen yüzler sıradan olabilir. Dokunmadan önce yeteri kadar soğumasını bekleyin. Asırı ısınma veya yanmış的风险 için düzeneği düz bir zeminde üst taraf aşağı gelecek şekilde koymayın. Düzeneğin ve güç kaynağının yeteri miktarda havalandırılmasını sağlayın.

#### УВАГА! (UA)

Небезпека враження електричним струмом. Щоб уникнути можливості серйозно травмуватися, завжди дотримуйтесь належних запобіжних заходів і вимикайте прилад із розетки перед переміщенням або чисткою. Прилад із блоком живлення відповідає вимогам для використання у вологому середовищі, наведеним у стандарті UL 1598, ale не розраховані на занурення у воду. Якщо модуль або блок живлення було занурено у воду, перш ніж дістати його, вимкніть автоматичний мікромікмач і від'єднайте виріб від розетки. Щоб уникнути пошкодження зору, не дивіться на відкриті світлодіоди. Світлодіоди і поверхні радіатора можуть бути гарячими. Перш ніж торкатися приладу, зажекайте, доки він охопне. Щоб уникнути перегріву чи покожі, николи не ставте вівімкнений прилад лицьовою стороною вниз на гладку поверхню. Завжди забезпечуйте належну вентиляцію приладів і джерел живлення.

#### WARNING! (GB)

Importer:  
**OSRAM GmbH**  
Nonnendammallee 44  
13629 Berlin  
Germany



D Produkt zur Raumbeleuchtung im Haushalt nicht geeignet GB Product not suitable for domestic household lighting F Produkt inadapte a l'éclairage intérieur d'une habitation I Prodotto non idoneo a impianti di illuminazione domestici E Producto no adecuado para iluminacion residencial P Produkt no adequaduado para iluminación domestica GR To prótol' ñen èvna katalállo yia filotropiò okikas' hrjtos' NL Produkt niet geschikt voor huishoudelijke verlichtingsdoeleinden S Produkten ar ej lämplig för hushållsbelysning FIN Tuotteta ei voida käyttää kotitalouksien valaistuksen N Produktet er ikke egnet til å lyse opp rom med DK Produktet er ikke egnet husholdningsbelysning CZ Vyrobek není vhodný pro osvětlení domovního SK Produkt nie je vhodný na osvetlenie miestnosti v domácnosti SLO Izdelek ni primeren za osvetlitev bivalnits prostorov TR Urun, ev aydinlatmasi icin uygun degildi HR Proizvod nije prikladan za rasvetu prostorija u kućanstvu RO Produsul nu este adevarat pentru iluminatul locuinței BG Produktul не е подходящ за осветление на къща и т.н. LT Energieeffizientinis aparatui nėra skirtas namams LT Prietaisai nesirksta namų apšvietimui LV Produkts nav piemērots apgaismojumam mājās. SRB Proizvod nije pogodan za rasvetu u domaćinstvu UA Produkt ne podeshodjuje za potrošivo dobro. 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## 4. IMPORTANT SAFETY PRECAUTIONS & EXPLANATION OF SYMBOLS

- Please read this manual thoroughly before attempting to install or operate any Fluence VYPR Series system.
- After successful installation and configuration of the system, be sure to retain this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble free installation.
- It is important you read, fully understand, and observe the subsequent safety precautions. If you are not comfortable with the installation of high performance lighting systems, you should seek the services of a qualified installation professional or call us for help.
- NOTICE: VYPR is a high-performance lighting system. Do not touch while in operation.
- Connect the system only to the power sources of the appropriate voltage using the correct AC plug type. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the system to an electrical outlet or extension cord of appropriate type and rating. Connect the system only to the power sources of the correct voltage using the plug received.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades – one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.
- The system should only be cleaned as directed in the manual. You should seek service for your system by qualified service personnel if any of the following occur:
  1. The power-supply cord or the plug has been damaged.
  2. The unit has been exposed to rain.
  3. The unit exhibits a marked change in performance.
  4. The unit has been dropped, or its enclosure or chassis is damaged.

## 5. CULTIVATION BEST PRACTICES

Fluence encourages everyone to experiment and pursue their own techniques. Every crop is different and everyone has different goals. However, our internal research has given us insight into several strategies we would like to share.

- Regularly check your plants' growth and health. Fluence lighting systems deliver high levels of PAR, typically more than experienced in nature. Adjustments to H<sub>2</sub>O, CO<sub>2</sub>, RH, nutrients, and temperature are typically required.

- Mount your fixture at least 18" from the top of your canopy to ensure optimal uniformity and consistent PPFD. The VYPR Series was designed to provide uniform light dispersion and requires precise deployment. A 1" variation in either direction will have a significant effect in uniformity and PPFD (which may or may not be desired).

- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and room ambient temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.

For cultivation recommendations visit  
<https://fluence.science/science-articles/>

## 6. GENERAL CARE

VYPR lighting systems are passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle-after-cycle.

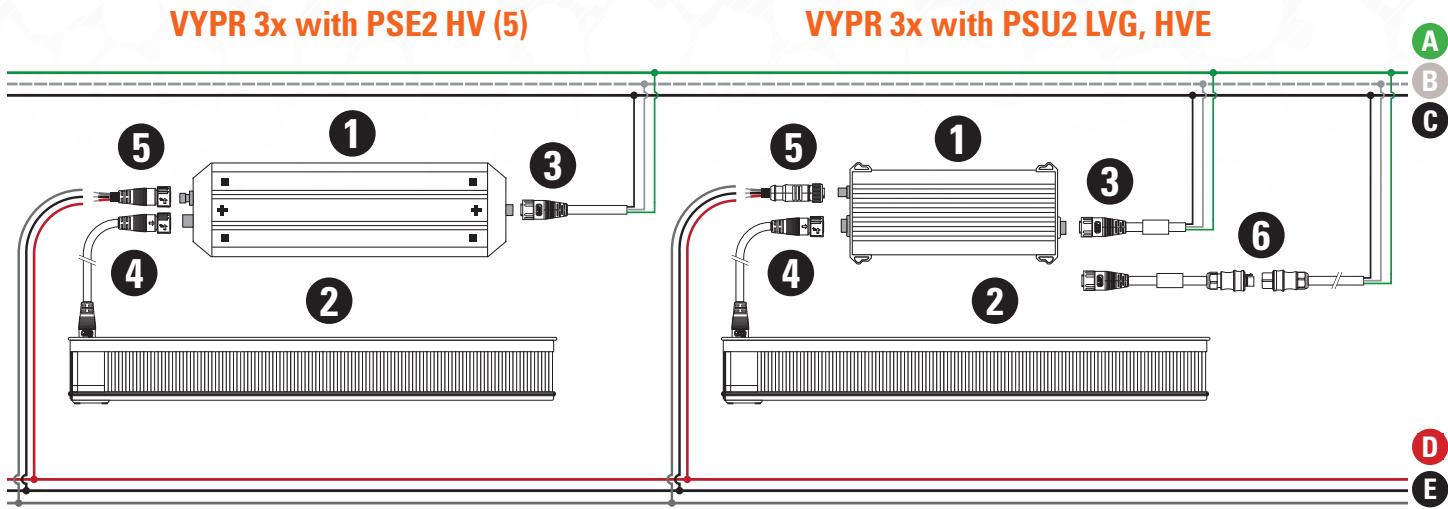
- Natural convection removes heat away from the heatsink. In order for the system to properly cool itself, at least two inches of space is required between the fixture and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heatsink and LED array. Cleaning should always be done with the fixture unplugged from its power source using low-pressure compressed air or water to rinse off heatsink or LED array.
- Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicon seal, or dislodge diodes entirely.
- To limit degradation, avoid touching the diodes with your hands, even in a powered off state.
- Nutrient/fertigation should not be allowed to come into contact with the light fixture and/or build up on the light fixture. Doing so will void the warranty.

For detailed instructions for maintenance and cleaning, visit  
[www.fluence.science/support-center/](https://fluence.science/support-center/)

**VYPR is a high-performance lighting system. Do not touch while in operation.**

**PLEASE RECYCLE ALL PACKAGING MATERIAL.**

## 7. SYSTEM WIRING DIAGRAM AND SPECIFICATIONS



### COMPONENTS

1. Power Supply
2. Light Fixture
3. AC Power Cable to Power Supply
4. DC Power Cable to Light Fixture
5. DC Dimming Signal Cable to Power Supply
6. Optional WIELAND© AC power cable adapters to Power Supply  
(i.e. p/n CACE-71576-10) and DCA pigtail cable (i.e. p/n CACE-71650-10)

### CABLING

- A. AC Power Ground
- B. AC Power Neutral
- C. AC Power Line (Main)
- D. 0-10V DC Dim (+)
- E. 0-10V DC Dim (-)
- F. Dim Drain Wire (Ground)

Power Supply Connector	PSU2 320W LVG, HVE		PSE2 320W HV (5)	
	Connector Type	Pin Assignments	Connector Type	Pin Assignments
<b>AC Power Connector</b>	Push-lock Male M19, 3-pin	Pin N: Neutral Pin L: Line Pin G: Ground	Push-lock Male M19, 3-pin	Pin N: Neutral Pin L: Line Pin G: Ground
<b>DC Power Connector</b>	Push-lock Female M19, 2-Pin	Pin 1: LED (-) Pin 2: LED (+)	Push-lock Female M19, 2-Pin	Pin 1: LED (-) Pin 2: LED (+)
<b>Dimming Connector</b>	IEC61076-2-101 Threaded A-Code Male M12, 3-pin	Pin 1: Dim (-) Pin 3: Dim (+) Pin 4: 12VDC+	Push-lock Male M16, 3-Pin	Pin 1: Dim (-) Pin 2: 12 V DC+ Pin 3: Dim (+)

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**Maximum Ambient Operating Temperature: 104° F / 40° C**

### SYSTEM SPECIFICATION SHEETS

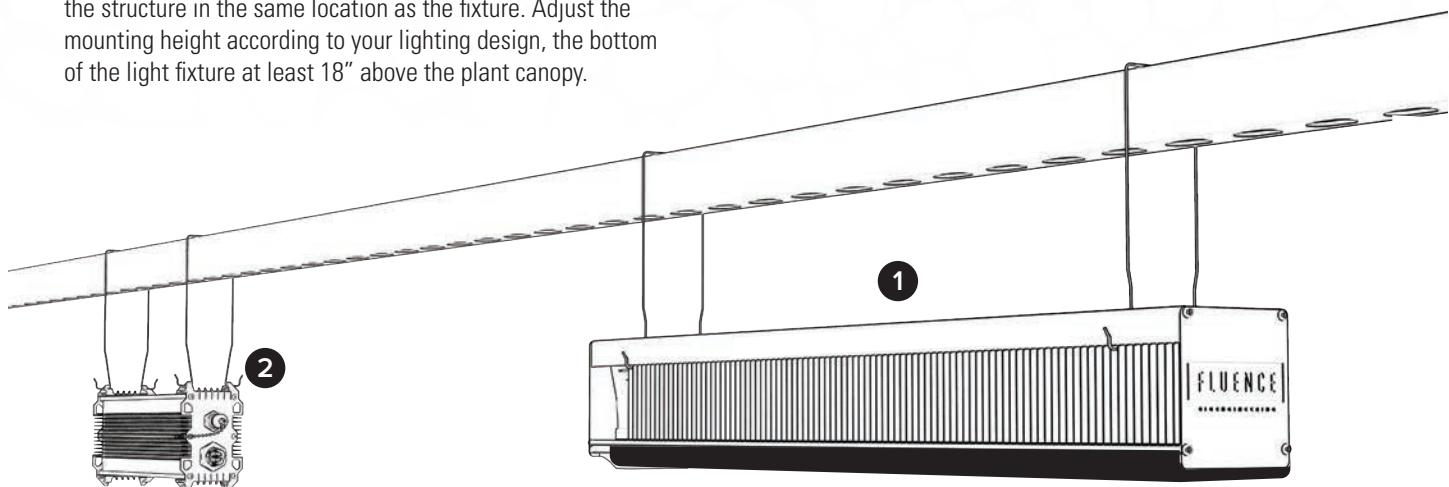
For complete product information and system specifications please visit

[www.fluence.science/support-center/](http://www.fluence.science/support-center/)

or email [support@fluencebioengineering.com](mailto:support@fluencebioengineering.com)

## 8. SYSTEM INSTALLATION INSTRUCTIONS

- 1** Mount the light fixture in a location according to your lighting design, per the installation steps for your purchased hardware. For Combo Mount, first mount the power supply to the structure in the same location as the fixture. Adjust the mounting height according to your lighting design, the bottom of the light fixture at least 18" above the plant canopy.

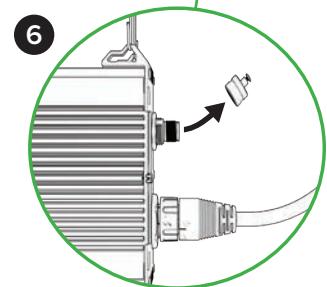
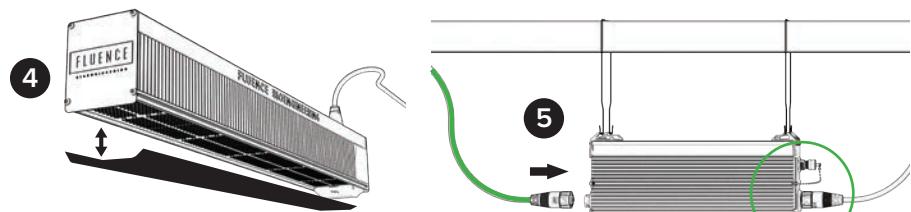
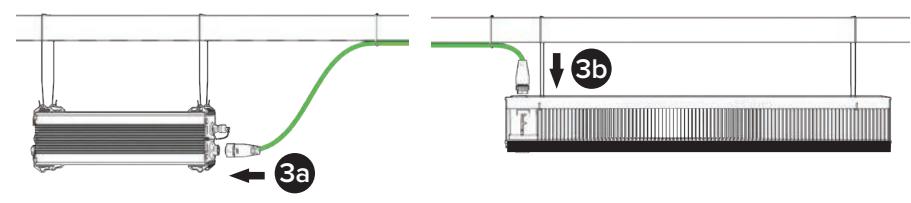


- 3** Connect the DC power extension cable to the power supply and light fixture, i.e. p/n CDCG-71591-10 or CDCG-70720-10.

- 4** Remove the protective cover to expose the LED array. Discard the cover.

- 5** Connect the AC power cable to the power supply, i.e. p/n CACA-70754-10. Wire to AC power per the system wiring diagram, or plug in AC power cables, and test.

- 6** Optional: if connecting to a dimmer system or controller, remove the dust cap on the power supply, and connect a Fluence wet location dimming cable, i.e p/n CDMA-71561-10.



**CAUTION: To protect the LED ARRAY,**

- Do NOT remove the protective cover during installation.
- Do NOT contact the LED array or protective cover with sharp object or force that may damage the LED's.
- Do NOT leave the protective cover on the fixture after installation. It will melt when powering the fixture.
- Do NOT plug in AC power BEFORE connecting the power supply to VYPR fixture first.
- Also, the power supply heat sink fin edges may be sharp. The use of gloves is recommended when handling and installing the power supply to reduce the risk of injury.

**PRECAUCIÓN: Para proteger el LED ARRAY,**

- NO retire la cubierta protectora durante la instalación.
- NO entre en contacto con la matriz LED o la cubierta protectora usando un objeto o fuerza afilado que pueda dañar el LED.
- NO deje la cubierta protectora en el aparato después de la instalación. Se derretirá al encender el aparato.
- NO conecte primero la alimentación de CA ANTES de conectar la fuente de alimentación a la unidad VYPR.
- Además, los bordes de la aleta del dissipador térmico de la fuente de alimentación pueden ser afilados.
- Se recomienda el uso de guantes al tocar e instalar la fuente de alimentación para reducir el riesgo de lesiones.

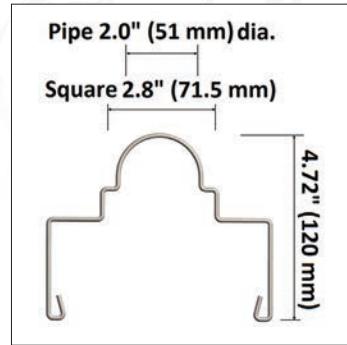
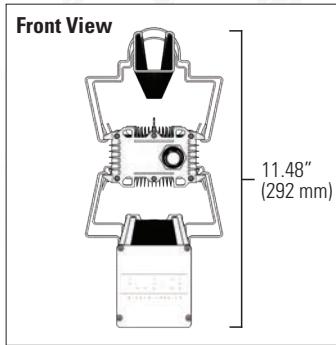
**MISE EN GARDE : Pour protéger le réseau de DEL**

- NE PAS retirer le couvercle de protection pendant l'installation.
- NE PAS mettre en contact la matrice de DEL ou le couvercle de protection avec un objet pointu ou une force qui pourrait endommager les DEL.
- NE PAS laisser le capot de protection sur le luminaire après l'installation. Il fondra lors de la mise sous tension de l'appareil.
- NE PAS brancher l'alimentation CA AVANT de connecter l'alimentation au luminaire VYPR.
- De plus, les bords des ailettes du dissipateur thermique de l'alimentation électrique peuvent être coupants. L'utilisation de gants est recommandée lors de la manipulation et de l'installation de l'alimentation électrique afin de réduire le risque de blessure.

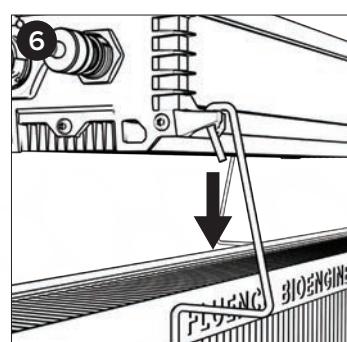
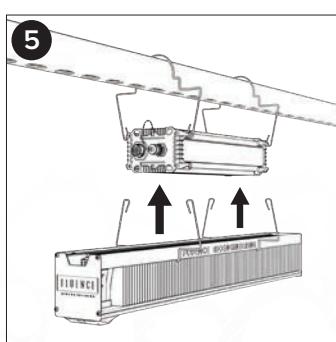
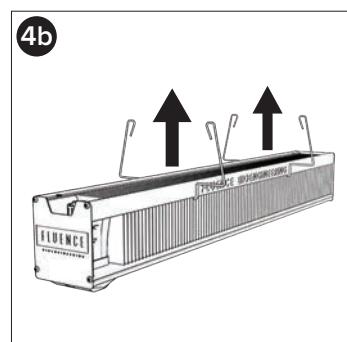
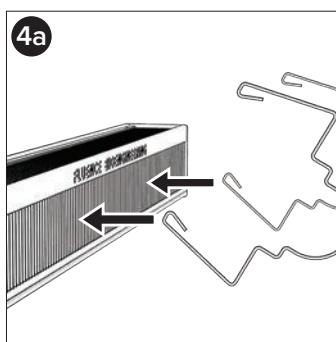
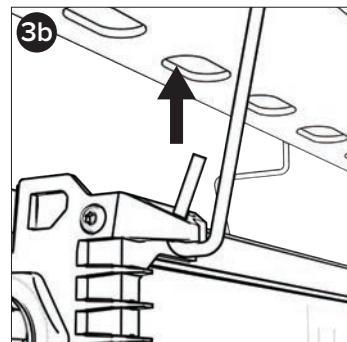
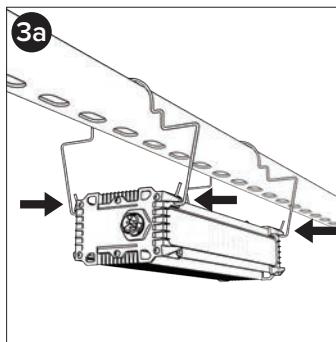
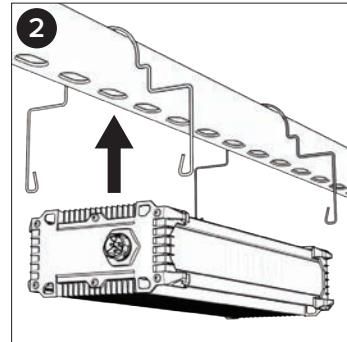
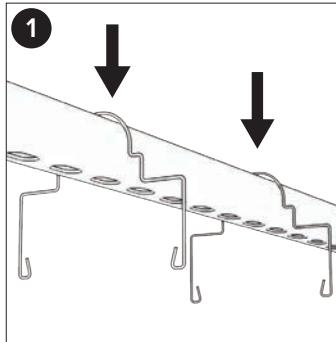
## 9. MOUNTING INSTRUCTIONS

### 9.1 Combo Mount Kit (AMV3-10569-20)

Suitable for pipes up to 1 3/4" (44.5 mm) in diameter, and for trusses or channel up to 2 3/4" (69.9 mm) wide.



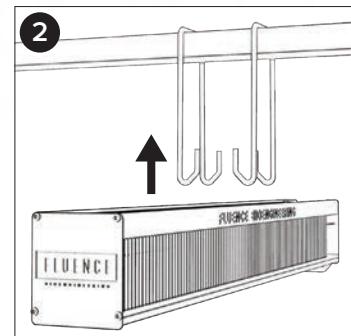
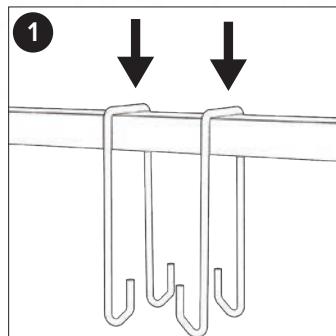
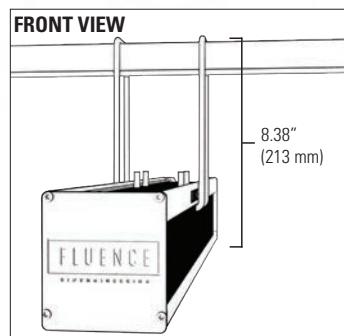
- 1 Take (2) mounting hangers. Hang both brackets over the support structure as shown
- 2 Mount the power supply in the desired location, per the installation steps for your purchased mounting hardware.
- 3 Hook each hanger end onto the upper loops at each corner of the power supply.
- 4 Take (2) more mounting hangers as shown and Insert them through a slot between the VYPR fixture cooling fins. Space them to line up with the power supply lower loops. Pull up to clip the hangers to the fixture.
- 5 Hold the VYPR fixture up to the underside of the power supply as shown.
- 6 To complete the mounting, hook each hanger end onto the lower loops at each corner of the power supply.



## 9. MOUNTING INSTRUCTIONS

### 9.2 Perpendicular Mount Kit (AMV3-10572-20)

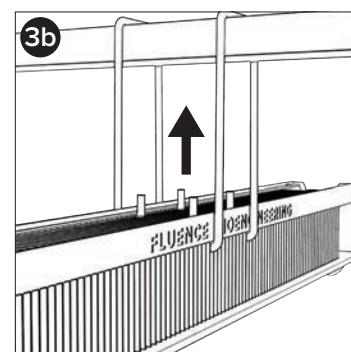
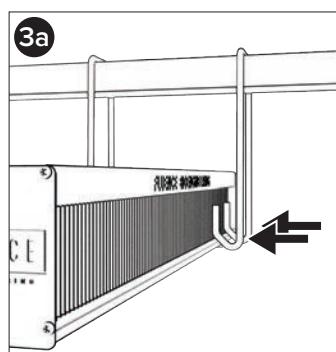
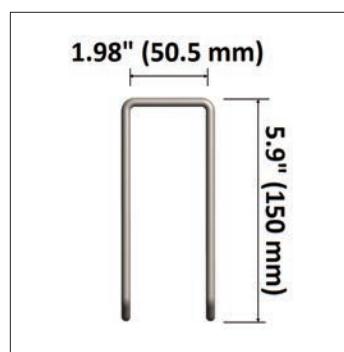
Suitable for 25 mm x 50 mm T-slotted strut.



- 1** Take (2) mounting hangers. Hang both brackets over the support structure as shown.

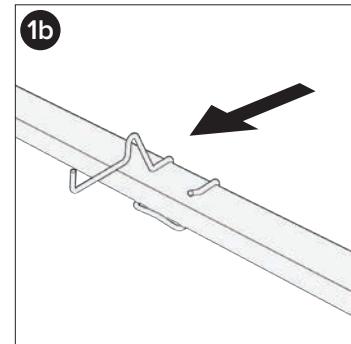
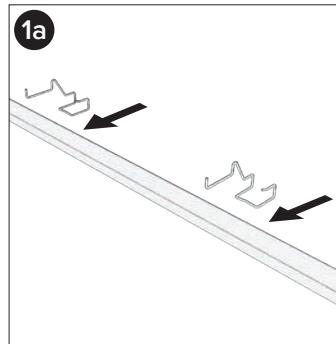
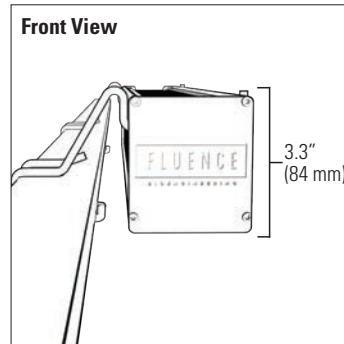
- 2** Hold the VYPR fixture up to the hangers, perpendicular to the support structure, as shown.

- 3** Hook the hanger ends on each side onto the VYPR fixture as shown between the cooling fins.



### 9.3 Parallel Mount Kit (AMV3-10571-20)

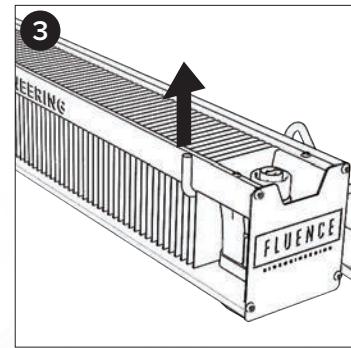
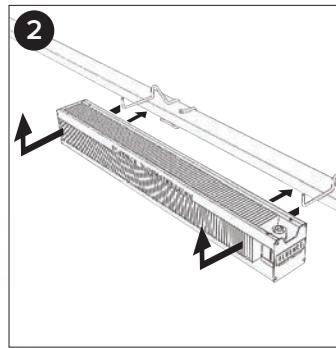
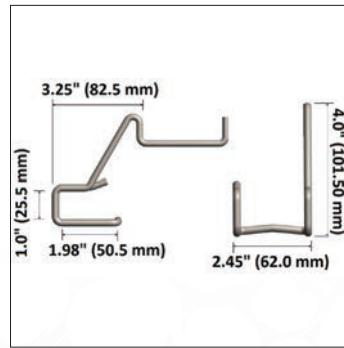
Suitable for 25 mm x 50 mm T-slotted strut.



- 1** Take (2) mounting brackets. Hang both brackets on the support structure as shown.

- 2** Hold the VYPR fixture up to the brackets, and slide onto the brackets. Guide the bracket arms through the cooling fins and rest the VYPR fixture on the arms.

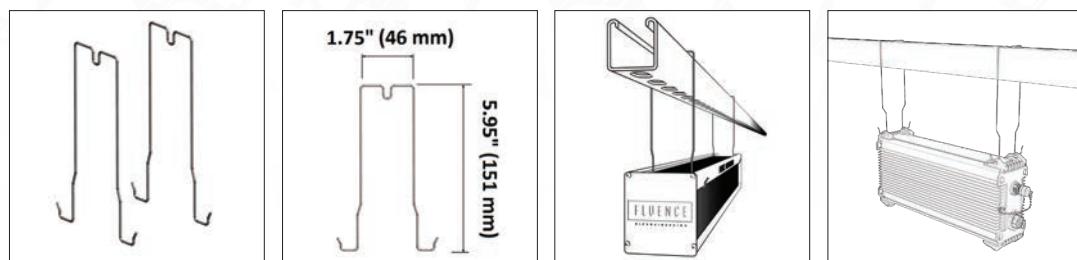
- 3** Ensure that the bracket arm hooks are all the way through and secure against the outside of the VYPR fixture frame shown.



## 9. MOUNTING INSTRUCTIONS

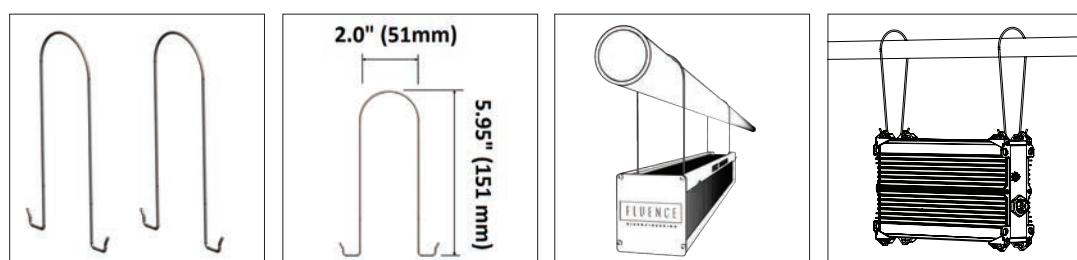
### 9.4 Unistrut Hanger Kit (AMV2-10120-20)

Suitable for Unistrut up to 1 5/8" (41.28 mm) wide.



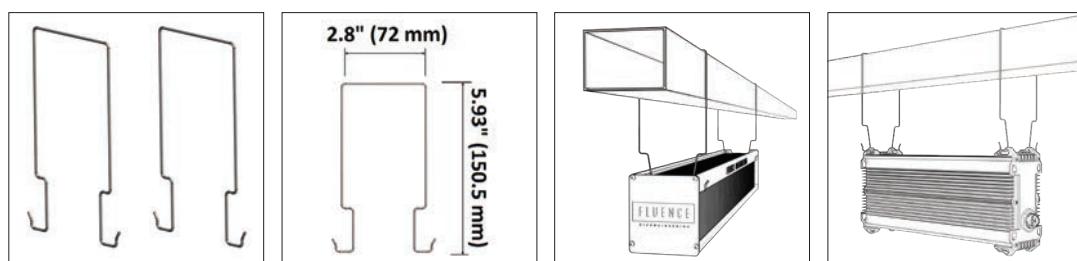
### 9.5 Pipe Hanger Kit (AMV2-10121-20)

Ideal for mounting under pipes up to 1 3/4" (44.5 mm) in diameter, or can be paired with chain or cable to suspend the fixture lower while the pipe bracket levels the fixture.



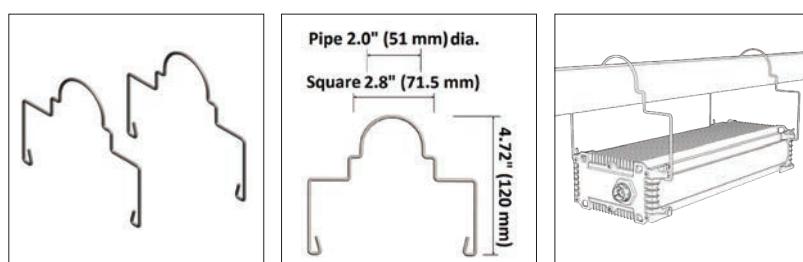
### 9.6 Square Hanger Kit (AMV2-10119-20)

Suitable for trusses or channel up to 2 3/4" (69.9 mm) wide.



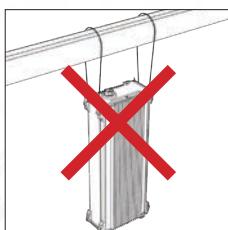
### 9.7 Combo Mount Hanger Kit (AMV3-10569-20)

Suitable for pipes up to 1 3/4" (44.5 mm) in diameter, and for trusses or channel up to 2 3/4" (69.9 mm) wide.



### 9.8 PSE2 Power Supply Remote with Pipe Hanger Kit (AMV2-10570-20)

Ideal for mounting under pipes up to 1 3/4" (44.5 mm) in diameter, or can be paired with chain or cable to suspend the fixture lower while the pipe bracket levels the fixture.



**IMPORTANT: DO NOT** mount the power supply vertically using wire-form type hangers. To mount the power supply vertically, use a Surface Mount Kit secured to a flat surface.

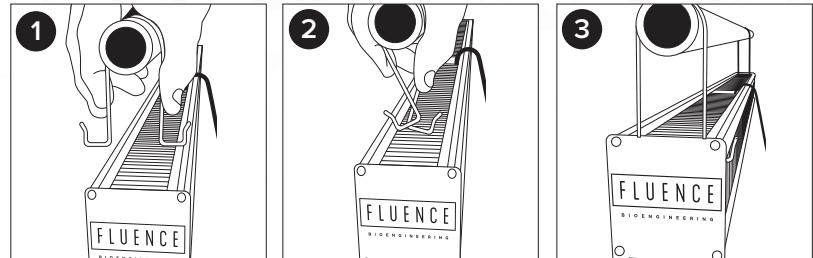
**IMPORTANTE: NO** coloque la fuente de alimentación verticalmente utilizando perchas de forma de alambre. Para montar la fuente de alimentación verticalmente, utilice un kit de montaje en superficie fijado a una superficie plana.

**IMPORTANT: NE PAS** monter l'alimentation électrique à la verticale en utilisant des supports de type fil de fer. Pour monter l'alimentation électrique à la verticale, utilisez un kit de montage en surface fixé sur une surface plane.

## 9. MOUNTING INSTRUCTIONS

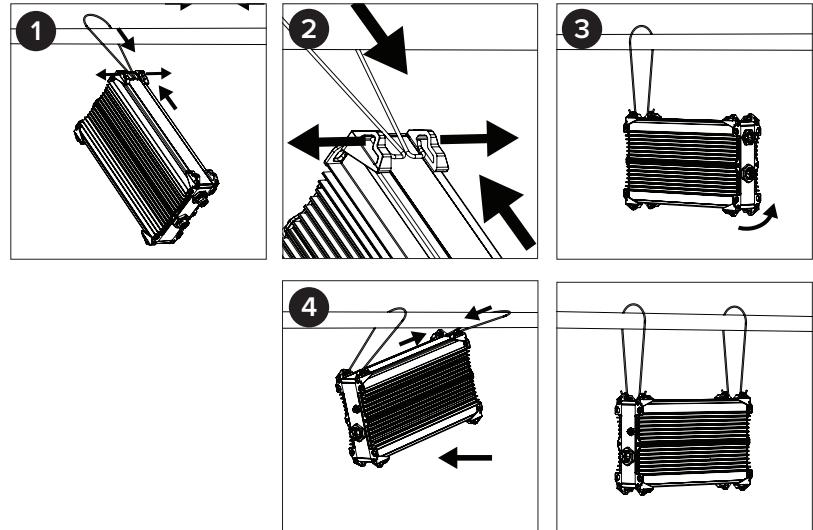
### Light Fixture with Unistrut, Pipe, or Square Hanger Kit

- 1 Take (2) mounting brackets. Hang a bracket over the support structure and hold up the VYPR fixture under it.
- 2 While maintaining a firm grip on both, pinch the bottom of the bracket inward and insert it into the top of VYPR heatsink between the fins, release the tension of the bracket.
- 3 When installed properly, the bracket should hook into both sides of the VYPR heatsink frame to provide a level and secure mount.
- 4 Repeat steps 1-3 on the other side of the fixture to finish mounting your VYPR. The two brackets should be centered to the fixture and widely spaced out, with 3"-8" to the fixture edge.



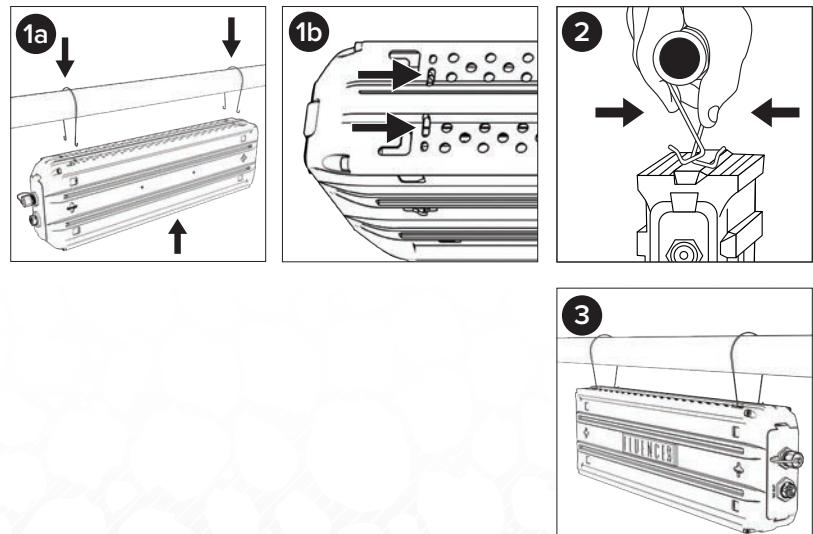
### PSU2 with Unistrut, Pipe, or Square Hanger Kit

- 1 Take (2) mounting brackets and hang a bracket over the support structure. Locate the holes for brackets on the narrow side of PSU power supply, hold up the power supply under the support structure under it.
- 2 While maintaining a firm grip on both, pinch the bottom of the bracket inward and horizontally insert it into the receiving holes on the PSU power supply, release the tension of the bracket.
- 3 Lift the ends of the brackets up to a 90° angle. Repeat above steps to install another bracket on the PSU power supply.



### PSE2 with Pipe Hanger Kit

- 1 Take (2) mounting brackets and hang a bracket over the support structure. Locate the holes for brackets on the narrow side of PSE2 power supply, hold up the power supply under the support structure under it.
- 2 While maintaining a firm grip on both, pinch the bottom of the bracket inward and horizontally insert it into the receiving holes on the PSE2 power supply, release the tension of the bracket.
- 3 Repeat above steps to install another bracket on the PSE2 power supply.

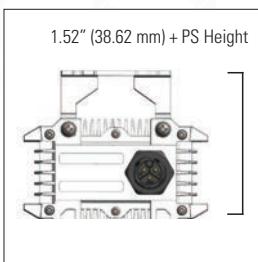
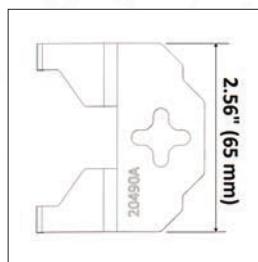


## 9. MOUNTING INSTRUCTIONS

### 9.9 PSU2 Power Supply Remote with Surface Mount Kit

Surface mount brackets are suitable for mounting to any flat surface that will support the weight of the power supply.

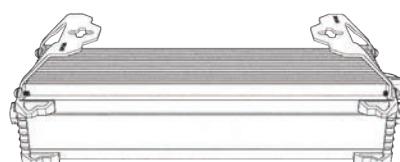
**PSU2 LVG, HVE**



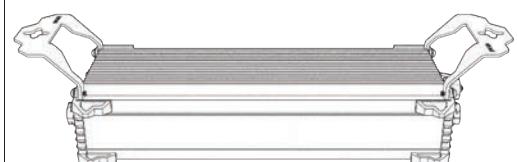
#### Bracket Positions

The mounting brackets can be installed outward or inward. If installed inward, it may be necessary to first mount the brackets to the surface.

Inward

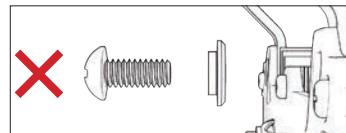
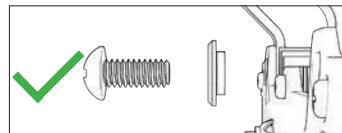
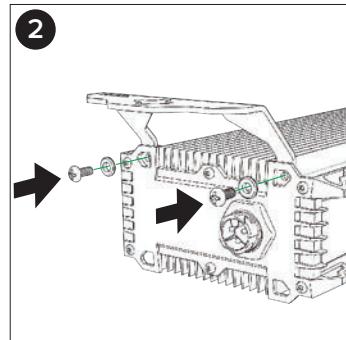
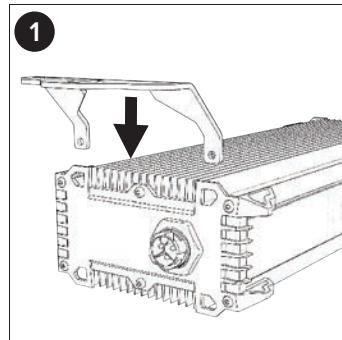


Outward

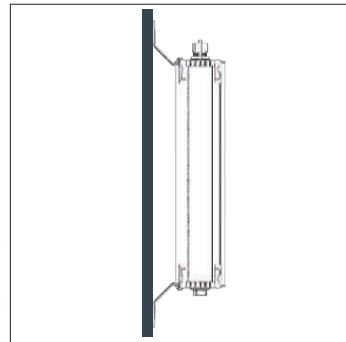
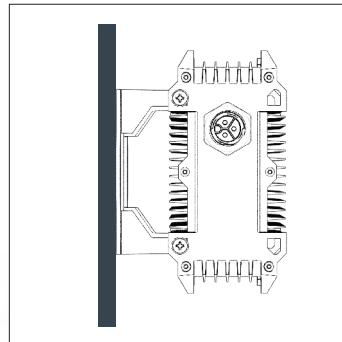
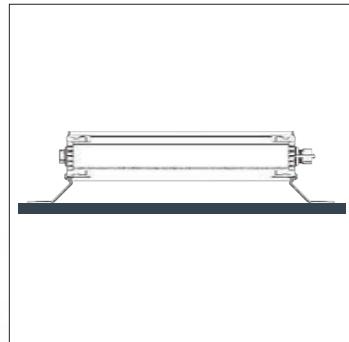


#### Bracket Installation

- 1 Place one bracket behind the power supply end plate and align the screw holes
- 2 Install a screw and washer in each hole and tighten. Ensure the washer is installed in the correct direction as shown for proper fit and function. Do not overtighten.
- 3 Repeat steps 1 and 2 at the other end. Mount the power supply to the desired surface using suitable hardware for the surface material, and weight of the power supply.



#### Recommended Mounting Positions





## 10. OUR PRODUCT GUARANTEE & WARRANTY

Every Fluence Lighting system is engineered and built by Fluence Bioengineering using state-of-the-art robotics and hand craftsmanship. All Fluence Lighting systems are guaranteed against manufacturing defects for five years from date of purchase. Fluence lighting systems comply with applicable standards and are intended to be used with Fluence power supplies, cables and mounting hardware. The use of Fluence lighting systems with power supplies, cables and mounting hardware by others will limit specifications and void the warranty. Contact us at [support@fluencebioengineering.com](mailto:support@fluencebioengineering.com) for more warranty information.

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