



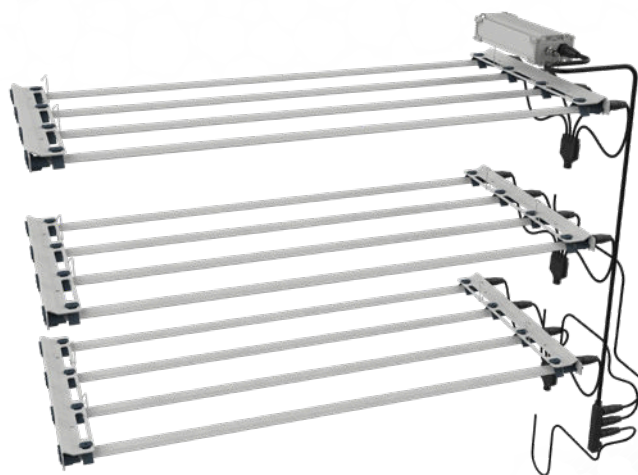
RAZR MODULAR

Systems Designed with 4 and 8-Bar Fixtures

Designed for high-performance vertical farms, Fluence's award winning RAZR Modular System illuminates your crops from propagation to harvest, yielding remarkable savings on energy and maintenance.

FLEXIBLE PERFORMANCE

Fluence's years of experience with vertical farm growers has proven BROAD R3a is the best spectrum for propagation and full-cycle cultivation of a multitude of leafy greens, microgreens, herbs and other vegetables. In addition to the R3a broad white spectrum, RAZR Modular systems are available with Broad R4, two different system lengths and an IP67 rated enclosed version for harsh environments.



RAZR Modular

Systems Designed with 4 and 8-Bar Fixtures



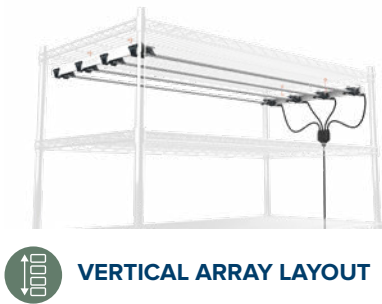
SYSTEM SPECIFICATION	
Mounting Height Above Canopy	>6" [15 cm]
Number of Fixtures/System (4-Bar 24W)	3, 4, and 6
Number of Fixtures/System (8-Bar 50W)	1
AC Input Power	215-620 W @ 277 V AC
AC Input Voltage	120-277 V, 277-480 V AC, 50/60 Hz
Power Factor*	> 0.97 (16-24 bars) and >0.92 (8-12 bars)
Total Harmonic Distortion (THD)*	< 10% (16-24 bars) and <20% (8-12 bars)
Dimming	Source Signal Driver, 0/1-10 V, OFF/ 10-100%
Max. Ambient Temperature	104°F / 40°C (95°F / 35°C @ 120 V AC)
Driver Lifetime at 40°C Ambient	> 50,000 hrs
Warranty	5 Year Limited
IP Rating per IEC 60598-1	IP66
Certifications	cETLus UL 8800, CE, Wet Location, DLC
DLC Reported Application and Use case	Indoor (Non-stacked), Indoor (Stacked) Top light/Sole-Source

LIGHT BAR SPECIFICATION	
Light Output PPF (per bar)	63 µmol/s
Efficacy (Spectrum)	2.6 µmol/J
Nominal DC Wattage/Bar	24-50 W
Light Distribution (Beam Angle)	120° Lambertian
Thermal Management	Passive
Lifetime LED Q90 (L90B50)	> 50,000 hrs
Thermal Management	Passive
IP Rating IEC 60598-1	IP67

* @ 100% output. Contact Fluence for values over dimming range

Spectrum	Light Bar Output (µmol/s)	Efficacy (µmol/J)	SKU Abbreviation
BROAD R3a	64	2.5	RM-48-SL-BW3
BROAD R4	62	2.7	RM-48-SL-BW4

Disclaimer: Performance values are from representative tests performed in accordance industry standards listed. Actual application performance may vary due to component tolerances and installation, environmental, and field measurements conditions.



SYSTEM ORDERING GUIDE

System includes light bars, power supply, frames, and DC cables (Splitters and Manifolds). See Accessories for hangers.

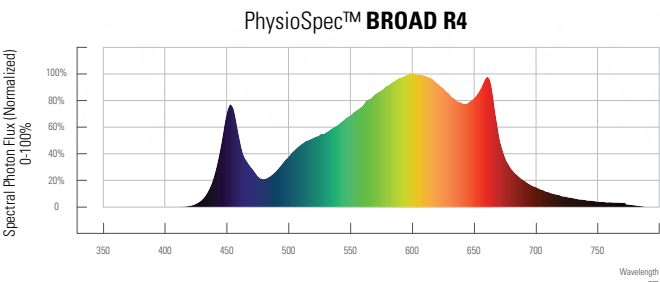
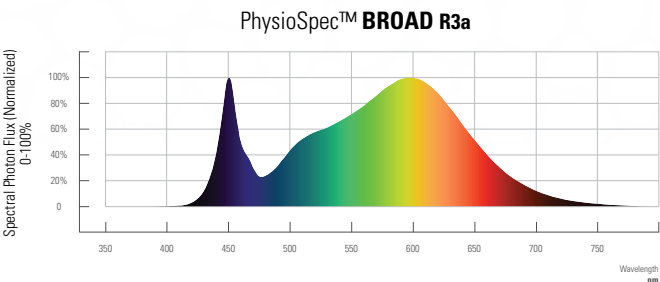
FAMILY ¹	Light Bar Length ¹	LED Layout ¹	Spectra ¹	Number of Bars per Fixture	Connector Type	Number of Fixtures	Voltage	Packaging
RM RAZR Modular	44 ² 44"	SL Standard Uniform Enclosed	BW3 BROAD R3a	4 ² 4-Bar Fixture (24W)	A Right Angle	6 ² 6 Fixtures	LV 120-277V	S Single
				8 ³ 8-Bar Fixture (50W)	S Straight	4 ² 4 Fixtures	HV 277-480V	
	48 48"	SL Standard Uniform Enclosed	BW3 BROAD R3a BW4 BROAD R4			3 ² 3 Fixtures 1 ³ 1 Fixture		

1. Product listed on DLC QPL as DC powered module RM-48-xx-xxx (example: RM-48-SL-BW4)
2. Available only in 4-bar fixtures at 24 W per bar
3. Available only in 8-Bar fixtures at 50 W per bar



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SPECTRA



RAZR MODULAR RACK SYSTEM SPECIFICATION

Fixture Type	Light Bar Spacing	Wattage/Bar	PPF per Fixture (400-700nm)	Number of Fixtures/System	System DC Power	System PPF (400-700nm)	AC Power (120-277V)	AC Current (120-277V)	AC Power (277-480V)	AC Current (277-480V)
4-Bar	6" [15 cm]	24 W	252 µmol/s	3 LB Frames	292 W DC	756 µmol/s	309-302 W	2.60-1.12 A	310-306 W	1.15-0.68 A
4-Bar	6" [15 cm]	24 W	252 µmol/s	4 LB Frames	389 W DC	1008 µmol/s	402-398 W	3.34-1.41 A	394-394 W	1.42-0.80 A
4-Bar	6" [15 cm]	24 W	252 µmol/s	6 LB Frames	584 W DC	1512 µmol/s	603-595 W	5.02-2.11 A	592-590 W	2.14-1.20 A
8-Bar	6" [15 cm]	49 W	965 µmol/s	1 LB Frame	389 W DC	965 µmol/s	402-398 W	3.34-1.41 A	394-394 W	1.42-0.80 A

Disclaimer: Performance values are from representative tests performed in accordance industry standards listed. Actual application performance may vary due to component tolerances and installation, environmental, and field measurements conditions.

SYSTEM ORDERING PART NUMBERS (4-BAR 44")

Description	Regional Commercial Code	Ordering Part Number (12NC)
RAZRm, 44", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW3, Right Angle Connector	RM-44SLBW3-4A6LV-S	9124 017 02333
RAZRm, 44", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW3, Right Angle Connector	RM-44SLBW3-4A4LV-S	9124 017 02334
RAZRm, 44", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW3, Right Angle Connector	RM-44SLBW3-4A3LV-S	9124 017 02335
RAZRm, 44", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW3, Right Angle Connector	RM-44SLBW3-4A6HV-S	9124 017 02336
RAZRm, 44", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW3, Right Angle Connector	RM-44SLBW3-4A4HV-S	9124 017 02337
RAZRm, 44", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW3, Right Angle Connector	RM-44SLBW3-4A3HV-S	9124 017 02338
RAZRm, 44", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW3, Straight Connector	RM-44SLBW3-4S6LV-S	9124 017 02339
RAZRm, 44", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW3, Straight Connector	RM-44SLBW3-4S4LV-S	9124 017 02340
RAZRm, 44", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW3, Straight Connector	RM-44SLBW3-4S3LV-S	9124 017 02341
RAZRm, 44", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW3, Straight Connector	RM-44SLBW3-4S6HV-S	9124 017 02342
RAZRm, 44", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW3, Straight Connector	RM-44SLBW3-4S4HV-S	9124 017 02343
RAZRm, 44", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW3, Straight Connector	RM-44SLBW3-4S3HV-S	9124 017 02344

SYSTEM ORDERING PART NUMBERS (4-BAR 48")

Description	Regional Commercial Code	Ordering Part Number (12NC)
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW3, Right Angle Connector	RM-48SLBW3-4A6LV-S	9124 017 02345
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW3, Right Angle Connector	RM-48SLBW3-4A4LV-S	9124 017 02346
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW3, Right Angle Connector	RM-48SLBW3-4A3LV-S	9124 017 02347
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW3, Right Angle Connector	RM-48SLBW3-4A6HV-S	9124 017 02351
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW3, Right Angle Connector	RM-48SLBW3-4A4HV-S	9124 017 02352
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW3, Right Angle Connector	RM-48SLBW3-4A3HV-S	9124 017 02353
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW3, Straight Connector	RM-48SLBW3-4S6LV-S	9124 017 02348
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW3, Straight Connector	RM-48SLBW3-4S4LV-S	9124 017 02349
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW3, Straight Connector	RM-48SLBW3-4S3LV-S	9124 017 02350
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW3, Straight Connector	RM-48SLBW3-4S6HV-S	9124 017 02354
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW3, Straight Connector	RM-48SLBW3-4S4HV-S	9124 017 02355
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW3, Straight Connector	RM-48SLBW3-4S3HV-S	9124 017 02356
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW4, Right Angle Connector	RM-48SLBW4-4A6LV-S	9124 017 02357
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW4, Right Angle Connector	RM-48SLBW4-4A4LV-S	9124 017 02358
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW4, Right Angle Connector	RM-48SLBW4-4A3LV-S	9124 017 02359
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW4, Right Angle Connector	RM-48SLBW4-4A6HV-S	9124 017 02363
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW4, Right Angle Connector	RM-48SLBW4-4A4HV-S	9124 017 02364
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW4, Right Angle Connector	RM-48SLBW4-4A3HV-S	9124 017 02365
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 120-277V, BW4, Straight Connector	RM-48SLBW4-4S6LV-S	9124 017 02360
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 120-277V, BW4, Straight Connector	RM-48SLBW4-4S4LV-S	9124 017 02361
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 120-277V, BW4, Straight Connector	RM-48SLBW4-4S3LV-S	9124 017 02362
RAZRm, 48", Enclosed, 4-Bar/6 Fixtures, 277-480V, BW4, Straight Connector	RM-48SLBW4-4S6HV-S	9124 017 02366
RAZRm, 48", Enclosed, 4-Bar/4 Fixtures, 277-480V, BW4, Straight Connector	RM-48SLBW4-4S4HV-S	9124 017 02367
RAZRm, 48", Enclosed, 4-Bar/3 Fixtures, 277-480V, BW4, Straight Connector	RM-48SLBW4-4S3HV-S	9124 017 02368

SYSTEM ORDERING PART NUMBERS (8-BAR 48")

Description	Regional Commercial Code	Ordering Part Number (12NC)
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 120-277V, BW3, Right Angle Connector	RM-48SLBW3-8A1LV-S	9124 017 02390
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 120-277V, BW3, Straight Connector	RM-48SLBW3-8S1LV-S	9124 017 02391
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 277-480V, BW3, Right Angle Connector	RM-48SLBW3-8A1HV-S	9124 017 02392
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 277-480V, BW3, Straight Connector	RM-48SLBW3-8S1HV-S	9124 017 02393
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 120-277V, BW4, Right Angle Connector	RM-48SLBW4-8A1LV-S	9124 017 02394
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 120-277V, BW4, Straight Connector	RM-48SLBW4-8S1LV-S	9124 017 02395
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 277-480V, BW4, Right Angle Connector	RM-48SLBW4-8A1HV-S	9124 017 02396
RAZRm, High Output, 48", Enclosed, 8-Bar/1 Fixture, 277-480V, BW4, Straight Connector	RM-48SLBW4-8S1HV-S	9124 017 02397

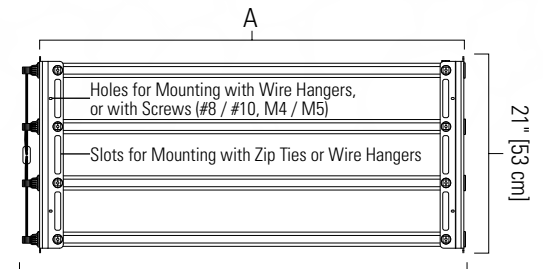
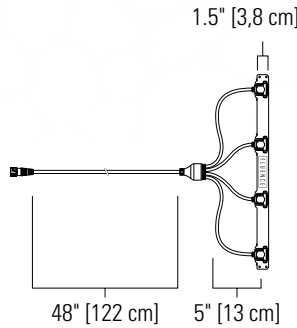
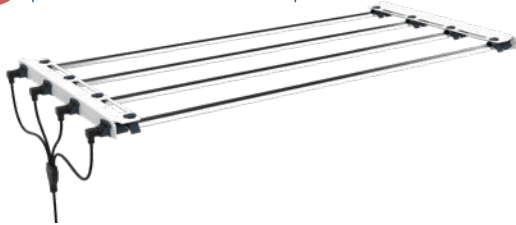
RAZR Modular

Systems Designed with 4 and 8-Bar Fixtures

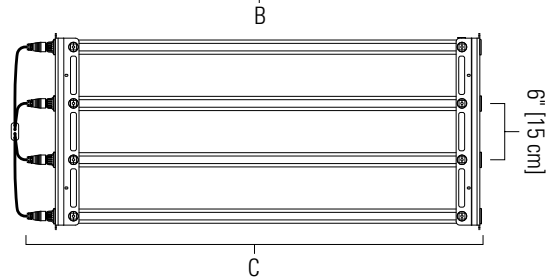
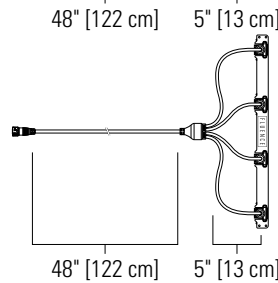
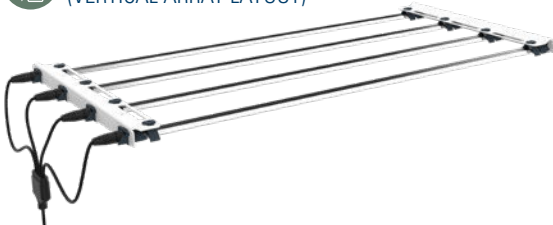


2'X4' 4-BAR RACK FIXTURE DIMENSIONS

 **WITH RIGHT ANGLE DC SPLITTER CABLE**
(HORIZONTAL ARRAY LAYOUT)

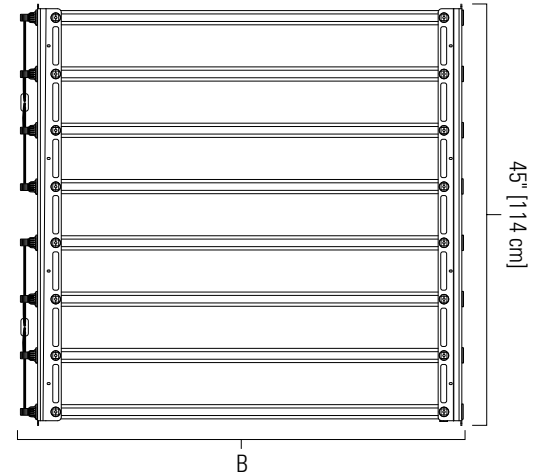
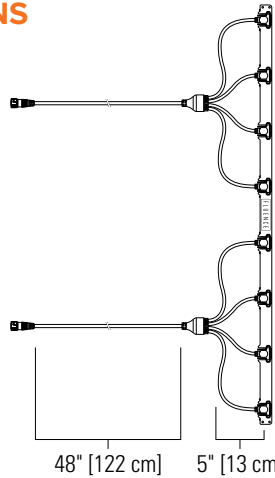


 **WITH STRAIGHT DC SPLITTER CABLE**
(VERTICAL ARRAY LAYOUT)

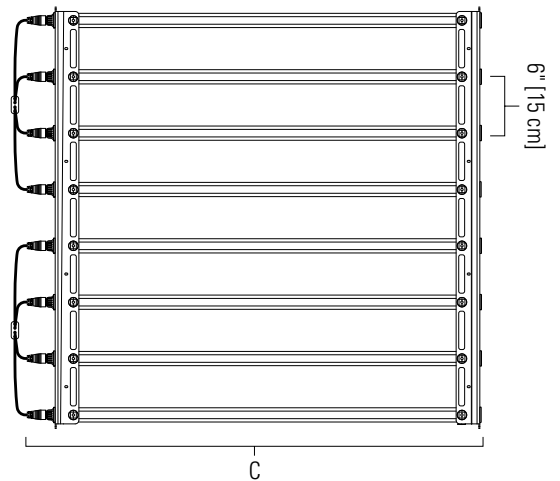
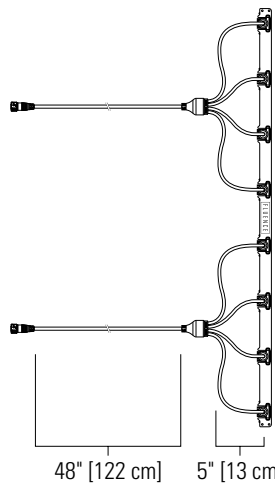


4'X4' 8-BAR RACK FIXTURE DIMENSIONS

 **WITH RIGHT ANGLE DC SPLITTER CABLE**
(HORIZONTAL ARRAY LAYOUT)



 **WITH STRAIGHT DC SPLITTER CABLE**
(VERTICAL ARRAY LAYOUT)



Configuration	Dimension A	Dimension B	Dimension C
RM-44-SL	42.4" [108 cm]	43.8" [111 cm]	44.6" [113 cm]
RM-48-SL	45.4" [116 cm]	46.9" [119 cm]	47.6" [121 cm]



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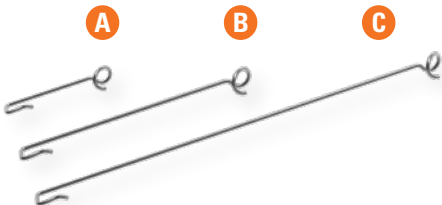
RAZR Modular

Systems Designed with 4 and 8-Bar Fixtures



FIXTURE HANGERS

Description	Length	QTY per Fixtures	Regional Commercial Code	Ordering PN 12NC Single Pack (-S)	Figure
Fixture Wire Hanger, Short - Baker's Rack	51 mm [2"]	1 Kit (4 pcs)	MR-RM-SH-XX	9124 017 02106	A
Fixture Wire Hanger, Medium - PIPP Rack	102 mm [4"]	1 Kit (4 pcs)	MR-RM-MH-XX	9124 017 02107	B
Fixture Wire Hanger, Long - Pallet Rack	191 mm [7.5"]	1 Kit (4 pcs)	MR-RM-LH-XX	9124 017 02108	C



ACCESSORIES FOR POWER SUPPLY

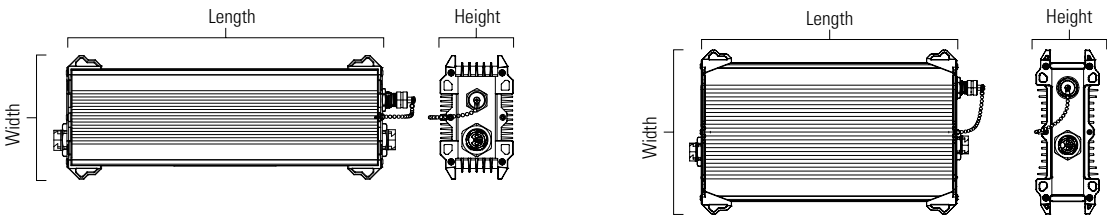
Power Supply Mounting Hardware	Used with Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (-S)	Ordering PN 12NC Bulk Pack (-B)	Bulk Pack Carton Quantity	Figure
PSU 292 W Power Supply Surface Mount Kit	PxMG-V3B-320-xxx	MS-PS-MB-3V	9124 016 56290	9124 016 56012	10 Kits	A
PSU LVG 584 W Power Supply Surface Mount Kit	PLMG-V3A-600-xxx	MS-PS-MB-LV	9124 016 56292	9124 016 56011	10 Kits	B
PSU HVG 584 W Power Supply Surface Mount Kit	PHxG-V2C-600-xxx	MS-PS-MB-HV	9124 016 56291	9124 016 56284	10 Kits	C



POWER SUPPLY DIMENSIONS AND WEIGHT

Power Supply	Regional Commerical Code	Length	Width	Height	Weight
120-277V AC PSU 365/438/511/584 W DC	PLMG-V3A-600-xxx	12.9" [32,9 cm]	5.3" [13,4 cm]	2.6" [6,7 cm]	8.1 lb [3,7 kg]
277-480V AC PSU 365/438/511/584 W DC	PHMG-V2C-600-xxx	10" [25,4 cm]	6.4" [16,3 cm]	2.4" [6,3 cm]	7.5 lb [3,4 kg]
120-277 V AC PSU 146/219/292 W DC	PLMG-V3B-320-xxx	11.3" [28,8 cm]	4.3" [10,9 cm]	2.9" [7,3 cm]	5.8 lb [2,6 kg]
277-480V AC PSU 146/219/292 W DC	PHMG-V3B-320-xxx	11.3" [28,8 cm]	4.3" [10,9 cm]	2.9" [7,3 cm]	5.8 lb [2,6 kg]

POWER SUPPLY



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RAZR Modular

Systems Designed with 4 and 8-Bar Fixtures



AC Power Cable - AMERICAS (Power Supply to AC Line)	Quantity per Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton Quantity
6-FT (1.83 m) AC Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 Pc	CAA-XXU3P9FN5P1.8	9124 017 01611	9124 016 88454	10 Pcs
6-FT (1.83 m) AC Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 Pc	CAA-XXU3P9FN6P1.8	9124 017 01613	9124 016 88456	10 Pcs
6-FT (1.83 m) AC Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 Pc	CAA-XXU3P9FL7P1.8	9124 017 01625	9124 016 55898	10 Pcs
6-FT (1.83 m) AC Cable, Pigtail, M19 Push Lock, Max 480 V AC	1 Pc	CAA-XXU3P9FL3X1.8	9124 017 01624	9124 016 55875	10 Pcs
15-FT (4.57 m) AC Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 Pc	CAA-XXU3P9FN5P4.6	9124 017 01612	9124 016 88455	5 Pcs
15-FT (4.57 m) AC Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 Pc	CAA-XXU3P9FN6P4.6	9124 017 01614	9124 016 88457	5 Pcs
15-FT (4.57 m) AC Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 Pc	CAA-XXU3P9FL7P4.6	9124 017 01626	9124 016 55899	5 Pcs
15-FT (4.57 m) AC Cable, Pigtail, M19 Push Lock, Max 480 V AC	1 Pc	CAA-XXU3P9FL3X4.6	9124 017 01610	9124 016 88461	5 Pcs
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	AAA-XXU3P9FWGM0.5	9124 016 56089	9124 016 56090	20 Pcs

DC Dimming Signal Cable - AMERICAS (Power Supply to Dimming Control)	Quantity per Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton Quantity
11-IN (0.28 m) Dimming Signal Cable, Pigtail, M12 Connector	1 Pc	CCA-XXU3T2FL3X0.3	9124 017 01621	9124 016 55902	10 Pcs
5-FT (1.52 m) Dimming Signal Cable, Pigtail, M12 Connector	1 Pc	CCA-XXU3T2FL3X1.5	9124 017 01622	9124 016 55881	10 Pcs

AC Power Cable - INTERNATIONAL (Power Supply to AC Line)	Quantity per Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton Quantity
1.83 m (6 FT) AC Cable, VDE, Schuko Type F7 Plug, M19 Push Lock, 230 V AC	1 Pc	CAE-XXV3P9FF7P1.8	9124 017 01628	9124 016 55901	10 Pcs
1.83 m (6 FT) AC Cable, VDE, Pigtail, M19 Push Lock (Not for CE Countries)	1 Pc	CAR-XXV3P9FL3X1.8	9124 017 01616	9124 016 88464	10 Pcs
4.57 m (15 FT) AC Cable, VDE, Schuko Type F7 Plug, M19 Push Lock, 230 V AC	1 Pc	CAE-XXV3P9FF7P4.6	9124 017 01615	9124 016 88463	5 Pcs
4.57 m (15 FT) AC Cable, VDE, Pigtail, M19 Push Lock (Not for CE Countries)	1 Pc	CAR-XXV3P9FL3X4.6	9124 017 01617	9124 016 88465	5 Pcs
70 cm (27.6 IN) AC Cable, Dca, Pigtail, M19 Push Lock (400V CE Application)	1 Pc	CAE-XXD3P9FL3X0.7	9124 017 01627	9124 016 55887	10 Pcs
80 cm (31.5 IN) AC Cable, Dca, Pigtail (Use with Adapter Cable) Wieland Connector Part #: 20i30F B2 ZR1S H GN02 (Female)	1 Pc	CAE-XXD3WGL3X0.8	9124 016 56106	9124 016 56107	10 Pcs
Wieland AC Connector Adapter for Power Supply, Dca Cable, M19 Push Lock, 20 cm (8 IN), Wieland Part #: RST20i3F S2 ZR1SVH GN0 (Male)	1 Pc	AAE-XXD3P9FWGM0.2	9124 017 01609	9124 016 88466	10 Pcs
1.83 m (6 FT) AC Cable, VDE, SAA 3-Prong Plug, M19 Push Lock, Max 250 V AC (Australia and New Zealand)	1 Pc	CAZ-XXS3P9FTIP1.8	9124 017 01618	9124 016 88467	10 Pcs

DC Dimming Signal Cable - INTERNATIONAL (Power Supply to Dimming Control)	Quantity per Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton Quantity
80 cm (31.5 IN) Dimming Signal Cable, Cca, Pigtail, M12 Connector	1 Pc	CCE-XXC3T2FL3X0.8	9124 017 01623	9124 016 55883	10 Pcs



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