

USA LUXR REMOTE POWER SUPPLY SELECTION CHART - M2 Range

USA AND CANADA CUSTOMERS ONLY

RECOMMENDED TRANSFORMERS, 12VAC VERSION FIXTURES, (PARALLEL WIRING)							
TRANSFORMER MODEL	OUTPUT WATTAGE	OUTPUT VOLTAGE VAC	AC INPUT VOLTAGE	LOW VOLTAGE MAGNETIC DIMMING	FIXTURE WATTAGE (EACH)	UNOBSTRUCTED DELIVERED LUMENS	MAXIMUM FIXTURES PER TRANSFORMER
SEB12AC-60W	60	12	120V	YES	3W	170	16*
WM100	100	12, 13, 14	120V	YES	3W	170	26*
1023-12-SS	150	12, 13, 14, 15	120V	YES	3W	170	40*
WM200	200	12, 13, 14	120V	YES	3W	170	53*
WM300	300	12, 13, 14	120V	YES	3W	170	80*
1101-12-SS	300	12, 13, 14, 15	120V	YES	3W	170	80*

* Please check voltage drop calculators on the last pages for guidance on run distances and wire gauge

RECOMMENDED CONSTANT CURRENT DRIVERS, REMOTE SERIES VERSION FIXTURES, (SERIES WIRING)							
DRIVER MODEL	OUTPUT CURRENT	OUTPUT VOLTAGE RANGE DC	AC INPUT VOLTAGE	DIMMING	NOMINAL FIXTURE WATTAGE (EA)	DELIVERED LUMENS	FIXTURES PER DRIVER

SUITABLE FOR TRIAC DIMMERS:

LD20W-28-C0700-LE	700 MA	14-28V	100-277V	TRIAC	2W	170	5-8
LD25W-36-C0700-LE	700 MA	12-36V	90-305V	TRIAC	2W	170	4-11

SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

LED-18DC-700	700 MA	4-26V	120-277V	ELV	2W	170	2-8
LD20W-28-C0700-TE	700 MA	14-28V	100-277V	ELV	2W	170	5-8
LD25W-36-C0700-TE	700 MA	12-36V	90-305V	ELV	2W	170	4-11

SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD20W-28-C0700-RD	700 MA	14-28V	100-277V	0-10V	2W	170	5-8
LD25W-36-C0700-RD	700 MA	12-36V	90-305V	0-10V	2W	170	4-11
TCI-1224123	700MA	3-57V	99-264V	0-10V	2W	170	1-18

PC-17-02	PolyCase Enclosure W/Mounting Kit and Standoff*
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* Polycase enclosure is required for UL approval

240V @ LF REMOTE POWER SUPPLY SELECTION CHART - A & Range

240V CUSTOMERS ONLY

RECOMMENDED TRANSFORMERS, 12V VERSION FIXTURES, (PARALLEL WIRING)							
TRANSFORMER MODEL	OUTPUT WATTAGE	OUTPUT VOLTAGE VAC	AC INPUT VOLTAGE	LOW VOLTAGE MAGNETIC DIMMING	FIXTURE WATTAGE (EACH)	UNOBSTRUCTED DELIVERED LUMENS	MAXIMUM FIXTURES PER TRANSFORMER
IG50	50	12	240V	YES	3W	110	13*
WM100	100	12, 13, 14	240V	YES	3W	110	26*
IG100	100	12	240V	YES	3W	110	26*
IG150	150	12	240V	YES	3W	110	40*
WM200	200	12, 13, 14	240V	YES	3W	110	50*
IG200	200	12	240V	YES	3W	110	50*
WM300	300	12, 13, 14	240V	YES	3W	110	80*

* Please check Hunza voltage drop calculators on the last pages for guidance on run distances and wire gauge

RECOMMENDED CONSTANT CURRENT DRIVERS, F9ACH9 SERIES VERSION FIXTURES, (SERIES WIRING)							
DRIVER MODEL	OUTPUT CURRENT	OUTPUT VOLTAGE RANGE DC	AC INPUT VOLTAGE	DIMMING	NOMINAL FIXTURE WATTAGE (EA)	DELIVERED LUMENS	FIXTURES PER DRIVER
SOT-23	700MA	3-11V	F8-21V	0-10V	2W	110	1-21

SUITABLE FOR 0-10V & DALI DIMMERS/CONTROLLERS:

SOT-23	700MA	3-11V	F8-21V	0-10V	2W	110	1-21
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Load - Lamp Wattage	Distance for 2.5mm (14AWG)	Distance for 4.0mm (12AWG)	Distance for 6.0mm (10AWG)	Distance for 10mm (8AWG)	Distance for 16mm (6AWG)	Distance for 25mm (3AWG)
20 watts	40mtr (43yds)	65mtr (70yds)	97mtr (105yds)	164mtr (177yds)	255mtr (276yds)	512mtr (555yds)
40 watts	20mtr (21.5yds)	32mtr (34.5yds)	48mtr (52yds)	81mtr (88yds)	128mtr (139yds)	258mtr (280yds)
50 watts	16mtr (17yds)	25mtr (27yds)	38mtr (41yd)	65mtr (70.5yds)	102mtr (111yds)	204mtr (221yds)
60 watts	13mtr (14yds)	20mtr (21.5yds)	32mtr (34.5yds)	54mtr (58.5yds)	85mtr (92yds)	170mtr (184yds)
70 watts	11mtr (12yds)	18mtr (19.5yds)	27mtr (29yds)	46mtr (50yds)	73mtr (79yds)	146mtr (158yds)
80 watts	10mtr (11yds)	16mtr (17yds)	24mtr (26yds)	40mtr (43yds)	63mtr (68yds)	127mtr (137yds)
90 watts	8.5mtr (9.2yds)	14mtr (15.2yds)	21mtr (22.7yds)	35mtr (38yds)	56mtr (53yds)	113mtr (122yds)
100 watts	8mtr (8.6yds)	13mtr (14yds)	19mtr (20.5yds)	33mtr (35.7yds)	51mtr (55yds)	102mtr (110yds)
120 watts	6mtr (6.5yds)	10mtr (11yds)	16mtr (17yds)	27mtr (29yds)	42mtr (45.5yds)	85mtr (92yds)
150 watts	5.2mtr (5.6yds)	8.3mtr (9yds)	13mtr (14yds)	21mtr (23yds)	34mtr (36.8yds)	68mtr (73.6yds)
200 watts	4mtr (4.3yds)	6.5mtr (7yds)	10mtr (10.8yds)	16mtr (17.3yds)	25.5mtr (27.6yds)	51mtr (55yd)
250 watts	3.1mtr (3.3yds)	5mtr (5.4yds)	8mtr (8.6yds)	12.6mtr (13.6yds)	20.3mtr (22yds)	41mtr (44.4yds)
300 watts	2.5mtr (2.7yds)	4.2mtr (4.55yds)	6.7mtr (7.2yds)	10.7mtr (11.6yds)	16.9mtr (18.3yds)	33.8mtr (36.6yds)

(this chart is a guide only - no load output voltage of the transformer may vary)

Metric to American Wire Gauge Conversion Chart

Metric Conductor Size	American Wire Gauge (Actual size in mm ²)
1.0mm ²	#18 (0.823)
1.5mm ²	#16 (1.31)
2.5mm ²	#14 (2.68)
4.0mm ²	#12 (3.31)
6.0mm ²	#10 (5.26)
10mm ²	# 8 (8.37)
16mm ²	# 6 (13.03)
25mm ²	# 3 (26.67) *
35mm ²	# 2 (33.62) *
50mm ²	# 1/0 (53.49)
70mm ²	# 2/0 (67.43)
95mm ²	# 4/0 (85.01) *

(*AWG size is the nearest to metric sizing).

REMOTE CONSTANT CURRENT DRIVER VOLTAGE DROP CHART					
		M4 FIXTURES			
Max. Distance Mtrs.	Min. Cable Size @ 350 mA	Min. Cable Size @ 500 mA	Min. Cable Size @ 700 mA	Min. Cable Size @ 900 mA	Min. Cable Size 1,050 mA
100	.5mm / 22AWG	.5mm / 22AWG	1.0mm / 20AWG	1.0mm / 18AWG	1.5mm / 16AWG
200	.5mm / 20AWG	1.0mm / 18AWG	1.5mm / 16AWG	2.0mm / 14AWG	2.0mm / 14AWG
300	1.0mm / 18AWG	1.5mm / 16AWG	1.5mm / 16AWG	3.3mm / 12AWG	3.3mm / 12AWG
400	1.5mm / 16AWG	1.5mm / 16AWG	2.0mm / 14AWG	3.3mm / 12AWG	5.2mm / 10AWG
500	1.5mm / 16AWG	2.0mm / 14AWG	3.3mm / 12AWG	5.2mm / 10AWG	5.2mm / 10AWG
Max. Fixtures	22	22	22	16	14
		MICRO, M1, M2, V1			
Max. Distance Mtrs.	Min. Cable Size @ 350 mA	Min. Cable Size @ 500 mA	Min. Cable Size @ 700 mA	Min. Cable Size @ 900 mA	Min. Cable Size 1,050 mA
100	.5mm / 22AWG	.5mm / 22AWG	1.0mm / 20AWG	1.0mm / 18AWG	1.5mm / 16AWG
200	.5mm / 20AWG	1.0mm / 18AWG	1.5mm / 16AWG	2.0mm / 14AWG	2.0mm / 14AWG
300	1.0mm / 18AWG	1.5mm / 16AWG	1.5mm / 16AWG	3.3mm / 12AWG	3.3mm / 12AWG
400	1.5mm / 16AWG	1.5mm / 16AWG	2.0mm / 14AWG	3.3mm / 12AWG	5.2mm / 10AWG
500	1.5mm / 16AWG	2.0mm / 14AWG	3.3mm / 12AWG	5.2mm / 10AWG	5.2mm / 10AWG
Max. Fixtures	11	11	11	8	7

This is meant as a guide only used in conjunction with a LUXR driver. Cable type should be stranded only.