

1. USA REMOTE POWER SUPPLY SELECTION CHART - 6 Watt Range

RECOMMENDED TRANSFORMERS, 12V VERSION SORAA LAMP 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	7.5W	500	6*
WM100	100	12, 13, 14	120V	YES	7.5W	500	10*
1023-12-SS	150	12, 13, 14, 15	120V	YES	7.5W	500	16*
WM200	200	12, 13, 14	120V	YES	7.5W	500	20*
WM300	300	12, 13, 14	120V	YES	7.5W	500	30*
1101-12-SS	300	12, 13, 14, 15	120V	YES	7.5W	500	30*

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

RECOMMENDED TRANSFORMERS, 12V VERSION PURE LED 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	7W	600	6*
WM100	100	12, 13, 14	120V	YES	7W	600	10*
1023-12-SS	150	12, 13, 14, 15	120V	YES	7W	600	16*
WM200	200	12, 13, 14	120V	YES	7W	600	20*
WM300	300	12, 13, 14	120V	YES	7W	600	30*
1101-12-SS	300	12, 13, 14, 15	120V	YES	7W	600	30*

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

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

SUITABLE FOR TRIAC DIMMERS:

LD25W-24-C1040-LE	1040 MA	8-24V	90-305V	TRIAC	6W	600	2-3
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SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

LD25W-24-C1040-TE	1040 MA	8-24V	90-305V	ELV	6W	600	2-3
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SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD25W-24-C1040-RD	1040 MA	8-24V	90-305V	0-10V	6W	600	2-3
TCI-122413 (@110V)	1050MA	3-38V	99-264V	0-10V	6W	600	1-5

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

2. USA REMOTE POWER SUPPLY SELECTION CHART - 4 Watt Euro Range

RECOMMENDED TRANSFORMERS, 12V VERSION LED DROP-IN LAMP 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	120	16*
WM100	100	12, 13, 14	120V	YES	3W	120	26*
1023-12-SS	150	12, 13, 14, 15	120V	YES	3W	120	40*
WM200	200	12, 13, 14	120V	YES	3W	120	50*
WM300	300	12, 13, 14	120V	YES	3W	120	75*
1101-12-SS	300	12, 13, 14, 15	120V	YES	3W	120	75*

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

RECOMMENDED TRANSFORMERS, 12V VERSION PURE LED 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	5W	420	9*
WM100	100	12, 13, 14	120V	YES	5W	420	16*
1023-12-SS	150	12, 13, 14, 15	120V	YES	5W	420	24*
WM200	200	12, 13, 14	120V	YES	5W	420	32*
WM300	300	12, 13, 14	120V	YES	5W	420	48*
1101-12-SS	300	12, 13, 14, 15	120V	YES	5W	420	48*

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

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

SUITABLE FOR TRIAC DIMMERS:

LD20W-28-C0700-LE	700 MA	14-28V	100-277V	TRIAC	4W	420	2-3
LD25W-36-C0700-LE	700 MA	12-36V	90-305V	TRIAC	4W	420	2-5

SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

LED-18DC-700	700 MA	4-26V	120-277V	ELV	4W	420	1-3
LD20W-28-C0700-TE	700 MA	14-28V	100-277V	ELV	4W	420	2-3
LD25W-36-C0700-TE	700 MA	12-36V	90-305V	ELV	4W	420	2-5

SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD20W-28-C0700-RD	700 MA	14-28V	100-277V	0-10V	4W	420	2-3
LD25W-36-C0700-RD	700 MA	12-36V	90-305V	0-10V	4W	420	2-5
TCI-122413 (@110V)	700MA	3-57V	99-264V	0-10V	4W	420	1-8

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

3. USA REMOTE POWER SUPPLY SELECTION CHART - 2W Range

RECOMMENDED TRANSFORMERS, 12V VERSION LED DROP-IN LAMP 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	120	16*
WM100	100	12, 13, 14	120V	YES	3W	120	26*
1023-12-SS	150	12, 13, 14, 15	120V	YES	3W	120	40*
WM200	200	12, 13, 14	120V	YES	3W	120	53*
WM300	300	12, 13, 14	120V	YES	3W	120	80*
1101-12-SS	300	12, 13, 14, 15	120V	YES	3W	120	80*

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

RECOMMENDED TRANSFORMERS, 12V VERSION PURE LED 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	120	16*
WM100	100	12, 13, 14	120V	YES	3W	120	26*
1023-12-SS	150	12, 13, 14, 15	120V	YES	3W	120	40*
WM200	200	12, 13, 14	120V	YES	3W	120	53*
WM300	300	12, 13, 14	120V	YES	3W	120	80*
1101-12-SS	300	12, 13, 14, 15	120V	YES	3W	120	80*

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

RECOMMENDED CONSTANT CURRENT DRIVERS, SERIES VERSION PURE LED FIXTURES, (SERIES WIRING)							
DRIVER MODEL	OUTPUT CURRENT	OUTPUT VOLTAGE RANGE DC	AC INPUT VOLTAGE	DIMMING	NOMINAL FIXTURE WATTAGE (EA)	DELIVERED LUMENS	FIXTURES PER DRIVER
LD20W-28-C0700-LE	700 MA	14-28V	100-277V	TRIAC	2W	120	5-8
LD25W-36-C0700-LE	700 MA	12-36V	90-305V	TRIAC	2W	120	4-11

SUITABLE FOR TRIAC DIMMERS:

LD20W-28-C0700-LE	700 MA	14-28V	100-277V	TRIAC	2W	120	5-8
LD25W-36-C0700-LE	700 MA	12-36V	90-305V	TRIAC	2W	120	4-11

SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

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

SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD20W-28-C0700-RD	700 MA	14-28V	100-277V	0-10V	2W	120	5-8
LD25W-36-C0700-RD	700 MA	12-36V	90-305V	0-10V	2W	120	4-11
TCI-1224123	700MA	3-57V	99-264V	0-10V	2W	120	1-18

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

4. USA REMOTE POWER SUPPLY SELECTION CHART - 3W Cube Range

RECOMMENDED TRANSFORMERS, 12V VERSION PURE LED 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	4W	180	12*
WM100	100	12, 13, 14	120V	YES	4W	180	20*
1023-12-SS	150	12, 13, 14, 15	120V	YES	4W	180	30*
WM200	200	12, 13, 14	120V	YES	4W	180	40*
WM300	300	12, 13, 14	120V	YES	4W	180	60*
1101-12-SS	300	12, 13, 14, 15	120V	YES	4W	180	60*

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

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

SUITABLE FOR TRIAC DIMMERS:

LD25W-24-C1040-LE	1040 MA	8-24V	90-305V	TRIAC	3W	180	3-7
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SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

LD25W-24-C1040-TE	1040 MA	8-24V	90-305V	ELV	3W	180	3-7
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SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD25W-24-C1040-RD	1040 MA	8-24V	90-305V	0-10V	3W	180	3-7
TCI-151413 (@110V)	1050MA	2-38V	99-264V	0-10V	3W	180	1-11

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

5. USA REMOTE POWER SUPPLY SELECTION CHART - POOL/POND LITES

RECOMMENDED TRANSFORMERS, 12V VERSION SORAA LAMP FIXTURES (PARALLEL WIRING)							
TRANSFORMER MODEL	OUTPUT WATTAGE	OUTPUT VOLTAGE VAC	AC INPUT VOLTAGE	DIMMING	FIXTURE WATTAGE (EACH)	DELIVERED LUMENS	MAXIMUM FIXTURES PER TRANSFORMER
A1162	300	12, 13, 14	120V	TRIAC	7.5W	600	30*

RECOMMENDED TRANSFORMERS, 12V VERSION FIXTURES, (PARALLEL WIRING)							
TRANSFORMER MODEL	OUTPUT WATTAGE	OUTPUT VOLTAGE VAC	AC INPUT VOLTAGE	DIMMING	FIXTURE WATTAGE (EACH)	DELIVERED LUMENS	MAXIMUM FIXTURES PER TRANSFORMER
A1162	300	12, 13, 14	120V	TRIAC	7W	600	30*

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

6. USA REMOTE POWER SUPPLY SELECTION CHART - Washer 9W

RECOMMENDED TRANSFORMERS, 12V VERSION PURE LED 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	7W	420	6*
WM100	100	12, 13, 14	120V	YES	7W	420	11*
1023-12-SS	150	12, 13, 14, 15	120V	YES	7W	420	17*
WM200	200	12, 13, 14	120V	YES	7W	420	22*
WM300	300	12, 13, 14	120V	YES	7W	420	34*
1101-12-SS	300	12, 13, 14, 15	120V	YES	7W	420	34*

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

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

SUITABLE FOR TRIAC DIMMERS:

LD25W-24-C1040-LE	1040 MA	8-24V	90-305V	TRIAC	9W	600	1-2
LD25W-36-C0700-LE	700 MA	12-36V	90-305V	TRIAC	6W	420	2-3

SUITABLE FOR ELV (ELECTRONIC LOW VOLTAGE) DIMMERS:

LD25W-24-C1040-TE	1040 MA	8-24V	90-305V	ELV	9W	600	1-2
LD25W-36-C0700-TE	700 MA	12-36V	90-305V	ELV	6W	420	2-3

SUITABLE FOR 0-10V DIMMERS/CONTROLLERS:

LD25W-24-C1040-RD	1040 MA	8-24V	90-305V	0-10V	9W	600	1-2
LD25W-36-C0700-RD	700 MA	12-36V	90-305V	0-10V	6W	420	2-3
TCI-122413 (@110V)	1050MA	3-38V	99-264V	0-10V	9W	600	1-3
TCI-122413 (@110V)	700MA	3-57V	99-264V	0-10V	6W	420	1-5

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

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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)	24mtrs (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					
		CREE XPG CHIPS			
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. Fittings	22	22	22	16	14
		CREE XHP CHIPS			
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. Fittings	11	11	11	8	7

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