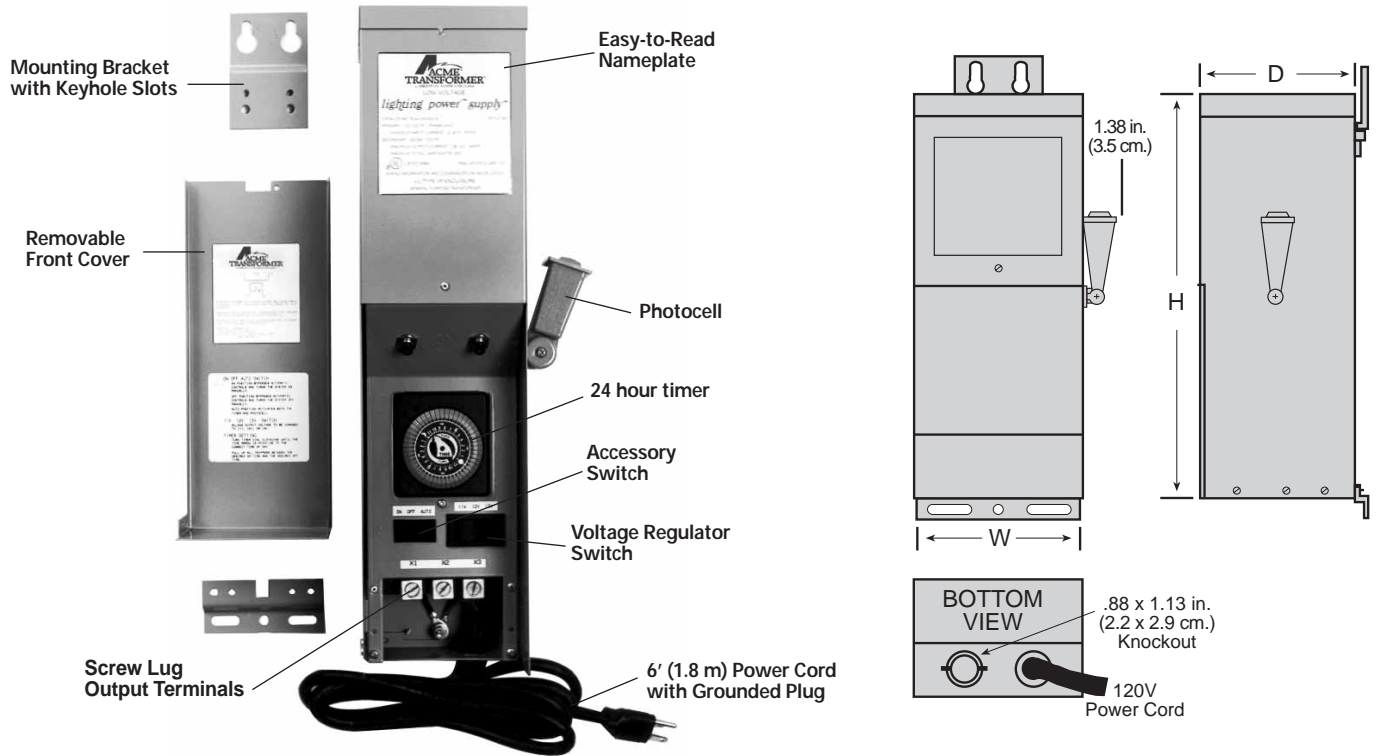


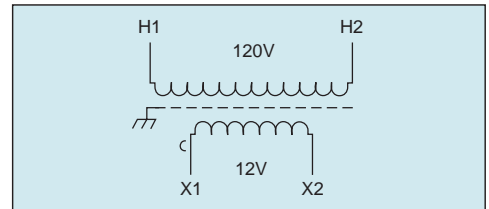
Low Voltage Lighting Power Supplies with 24-Hour Timer & Photocell



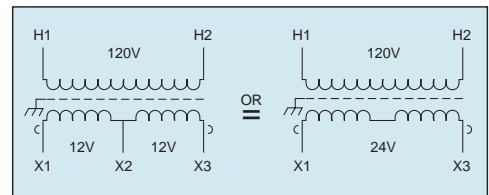
FEATURES

- 100, 150, 300, 600 Watt Models.
- 120V Primary, 12V or 12/24 V Secondary, 60 Hz.
- Fully encapsulated core and coil.
- 24-hour timer and photocell.
- Wall mounting brackets included.
- UL Listed.
- Screw lug terminals for ease of wiring.
- Deadfront terminal cover for added safety.
- 3-Position on-off-auto switch for versatility.
- Removable front cover, generous wiring space.
- 6' power cord with grounded plug.
- Voltage regulation switch for 11, 12 or 13 volts.
- Overload protection on primary and secondary sides.
- 10-year limited product warranty (3-years on timer/photocell).
- Faraday shielded for greater safety.

WIRING DIAGRAMS



12V Units



12/24 V Units

SELECTION GUIDE

GROUP I



WATTS	120V INPUT 12V OUTPUT	120V INPUT 12/24V OUTPUT ①	APPROX. DIMENSIONS ② INCHES (CM.)			APPROX. SHIP WEIGHT
	CATALOG NO.	CATALOG NO.	HEIGHT	WIDTH	DEPTH	LBS. (KG.)
300	TLVA-30012-SC	TLVA-30024-SC	19.00 (48.3)	4.62 (11.7)	4.25 (10.8)	14 (6.4)
600	TLVA-60012-SC	TLVA-60024-SC	19.00 (48.3)	4.62 (11.7)	4.25 (10.8)	18 (8.2)

① 12/24V denotes a three wire circuit, one 24V output or two 12V outputs. Each 12V is rated at one half the nameplate wattage.
 ② Dimensions not suitable for construction purposes. Contact factory for certified drawings.

Low Voltage Lighting Power Supplies

A greater selection for your indoor & outdoor low voltage lighting projects

Why Low Voltage?

Acme's Low Voltage Lighting products provide a safe, long lasting, highly reliable power source; a perfect selection for landscape applications as well as interior use.

Low voltage lighting is a creative medium with unlimited application possibilities. Low voltage lighting benefits include:

- Precision beam control
- More light intensity per watt
- Less radiated heat
- Greater efficiency
- Longer life
- Safer to use
- Easy installation
- A high return on end-user investment



Acme Advantages

Greater selection

Acme offers one of the largest selections of low voltage lighting transformers in the industry. The addition of our premium line (Group I) that includes a photocell and 24-hour timer and the versatile Group V transformers gives the landscape architect or contractor almost unlimited application possibilities. Please use the convenient Selection Guide on the facing page to aid in your selection.

More value

Acme low voltage transformers and power supplies are available in a wide range of options and models that are all UL listed for use indoors or outdoors. See inside back cover for warranty details.

More Power

Power supplies are available in ratings of 100 through 1500 W and transformers in ratings of 100 through 1000 W; Group VI Buck-Boost in .05 through 10 KVA.

More convenience

Screw lug output terminals on Group I, II and III power supplies provide fast low voltage connections — regardless

of transformer location. Just slip your wires into the lug and tighten— there's no wrapping the wire around a screw post. Groups IV, V and VI transformers have copper lead wires for hardwiring. Circuit breakers for instant reset (except pool and spa and Buck-Boost). No fumbling with fuses. Generous wiring compartment, too!

More protection

A full fault current carrying Faraday Shield (except Buck-Boost) prevents 120 volts from reaching the 12 volt side, as required by UL-1571 and UL-1838.

Features & Options

The convenient "Selection Guide" on the facing page provides you with the data you need to select the product that best meets your requirement. Complete product selection data, dimensions and wiring diagrams are contained on the following pages. If you need help in your selection, or if you have questions, just call technical services at 1-800-334-5214.

SELECTION GUIDE

		POWER SUPPLIES			TRANSFORMERS	
		GROUP I	GROUPS II & III	GROUP IV	GROUP V	GROUP VI
Features/Options		'TLVA' Catalog No.	'TLV' and 'T' Catalog No.	Pool and Spa 'T' and 'T-1' Catalog No.	'T-1' Catalog No.	Buck-Boost 'T-1' and 'T-2' Catalog No.
1	Ratings (Watts, VA, KVA)	100 through 600 Watts	100 through 1500 Watts	100, 300 and 500 Watts	100 through 1000 VA	.05 through 10 KVA
2	24 Hour Timer and Photocell	Standard on all units	No	No	No	No
3	Primary Input	120 Volts	120 Volts	120 Volts	120 Volts or 240 Volts	120 x 240 Volts
4	Secondary Output	Selection of 12V or dual 12/24 V units	Selection of 12V or dual 12/24 V units	12, 13, 14 V taps provided	12V or 24V	12 x 24 V
5	Primary Line Cord with Plug	Standard 6'	Optional 6' through 500 W	No	No	No
6	Hardwired Primary	NA	Optional	Yes	Yes	Yes
7	Overload Protection:	Primary	Auto Thermal Reset through 300 W	Auto Thermal Reset through 250 W	Auto Thermal Reset	Auto Thermal Reset
		Secondary	Circuit Breaker (s)	Optional Circuit Breakers (Group II)	No	Circuit Breakers
8	Output Wiring	Screw Lug Terminals	Screw Lug Terminals	Copper Lead Wires	Copper Lead Wires	Copper Lead Wires
9	Tap Switch 12V-11, 12, 13V or 12/24V-11/22, 12/24, 13/26	Standard on all Units	No	No	No	No
10	On-Off-Auto Switch	Standard on all units	No	No	No	No
11	UL Listed	Yes	Yes	Yes ③	Yes	Yes
12	CSA Certified	No	No	No	Yes	Yes
13	Faraday Shield	Yes	Yes	Yes	Yes	No
14	Product Warranty	10 Years ①	10 Years	10 Years	10 Years	10 Years
15	UL-3R Indoor/Outdoor Enclosure	Yes	Yes	Yes ②	No	Yes

① Timer and Photocell limited to 3 years.

② Standard Pool and Spa enclosure is painted cold-rolled steel. Stainless steel enclosure is available.

③ UL listed for use with low voltage submersible lights.

How To Size Your Power Supply

Easy Two-Step Selection

1. Add the total lamp wattage of each circuit you plan to use.
For example: if you have 2 circuits, each with four 25 watt lamps, your total wattage is: 2 circuits x 4 lamps = 8 lamps x 25 watts = 200 watts.
2. Go to the appropriate selection chart. The catalog number identifies the power supply size and output voltage (see example below). You won't find the exact 200 watts needed, so go to the next highest catalog number TLV-25012-S. This leaves you 50 watts of reserve power available for other low voltage applications. See chart below for recommended wire sizes and voltage drop.

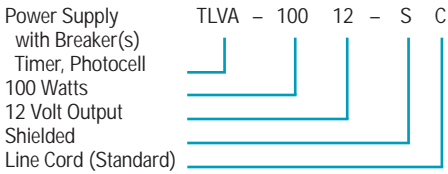
If you use a power supply with a dual 12/24 volt secondary, each 12 volt circuit is rated at one half the total power supply wattage. Example: A TLV-25024-SC has two 12 volt 125 watt output circuits. Refer to "Interpreting Power Supply Catalog Numbers" for further explanation of catalog numbers.

Dimmer Notice

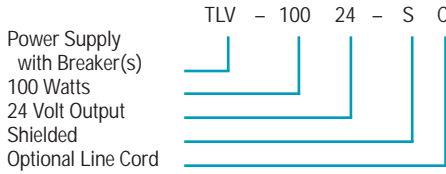
Only use dimmers designed and rated for **magnetic** loads. Consult the dimmer manufacturer for recommendations regarding your lighting application.

Interpreting Power Supply Catalog Numbers (Groups I, II, III)

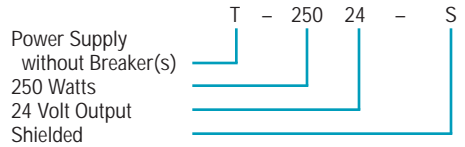
GROUP I



GROUP II



GROUP III



Recommended Wire Size & Voltage Drop ①

12 VOLT SYSTEM

Wire Size (Gauge)	WATTS (VA) Per Circuit																											
	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500			
Maximum Secondary Wire Length in Feet (Meters)																												
14	75 (22.9)	37 (11.3)	25 (7.6)	19 (5.8)	15 (4.8)	12 (3.7)	11 (3.4)	9 (2.7)	8 (2.4)	7 (2.1)	7 (2.1)	6 (1.8)	6 (1.8)	5 (1.5)	5 (1.5)	5 (1.5)	4 (1.2)	4 (1.2)	4 (1.2)	4 (1.2)	4 (1.2)	3 (0.9)	3 (0.9)	3 (0.9)	3 (0.9)	3 (0.9)		
12	118 (36.0)	59 (18.0)	39 (11.9)	30 (9.1)	24 (7.3)	20 (6.1)	17 (5.2)	15 (4.6)	13 (4.0)	12 (3.7)	11 (3.4)	10 (3.0)	9 (2.7)	8 (2.4)	8 (2.4)	7 (2.1)	7 (2.1)	7 (2.1)	6 (1.8)	6 (1.8)	6 (1.8)	5 (1.5)	5 (1.5)	5 (1.5)	5 (1.5)	5 (1.5)		
10	188 (57.3)	94 (28.7)	63 (19.2)	47 (14.5)	38 (11.6)	31 (9.4)	27 (8.2)	24 (7.3)	21 (6.4)	19 (5.8)	17 (5.2)	16 (4.9)	14 (4.3)	13 (4.0)	13 (4.0)	12 (3.7)	11 (3.4)	10 (3.0)	10 (3.0)	9 (2.7)	9 (2.7)	9 (2.7)	8 (2.4)	8 (2.4)	8 (2.4)	8 (2.4)		
8	299 (91.1)	149 (45.4)	100 (30.5)	75 (22.9)	60 (18.3)	50 (15.2)	43 (13.1)	37 (11.3)	33 (10.1)	30 (9.1)	27 (8.2)	25 (7.6)	23 (7.0)	21 (6.4)	20 (6.1)	19 (5.8)	18 (5.5)	17 (5.2)	16 (4.9)	15 (4.6)	14 (4.3)	14 (4.3)	13 (12.7)	13 (12.7)	12 (3.7)	12 (3.7)		
6	476 (145.1)	238 (72.5)	159 (48.5)	119 (36.3)	95 (29.0)	79 (24.1)	68 (20.7)	60 (18.3)	53 (16.2)	48 (14.6)	43 (13.1)	40 (12.2)	37 (11.3)	34 (10.4)	32 (9.8)	30 (9.1)	28 (8.5)	26 (7.9)	25 (7.6)	24 (7.3)	23 (7.0)	22 (6.7)	21 (6.4)	20 (6.1)	19 (5.8)	19 (5.8)		

24 VOLT SYSTEM

Wire Size (Gauge)	WATTS (VA) Per Circuit																											
	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500			
Maximum Secondary Wire Length in Feet (Meters)																												
14	150 (49.7)	75 (22.9)	50 (15.2)	37 (11.3)	30 (9.1)	25 (7.6)	21 (6.4)	19 (5.8)	17 (5.2)	15 (4.6)	14 (4.3)	12 (3.7)	12 (3.7)	11 (3.4)	10 (3.0)	9 (2.7)	9 (2.7)	8 (2.4)	8 (2.4)	7 (2.1)	7 (2.1)	7 (2.1)	7 (2.1)	6 (1.8)	6 (1.8)	6 (1.8)		
12	237 (92.2)	118 (36.0)	79 (24.1)	59 (18.0)	47 (14.3)	39 (11.9)	34 (10.4)	30 (9.1)	26 (7.9)	24 (7.3)	22 (6.7)	20 (6.1)	18 (5.5)	17 (5.2)	16 (4.9)	15 (4.6)	14 (4.3)	13 (4.0)	12 (3.7)	12 (3.7)	11 (3.4)	11 (3.4)	10 (3.0)	10 (3.0)	9 (2.7)	9 (2.7)		
10	376 (114.6)	188 (57.3)	125 (38.1)	94 (28.7)	75 (22.9)	63 (19.2)	54 (16.5)	47 (14.3)	42 (12.8)	38 (11.6)	34 (10.4)	31 (9.4)	29 (8.8)	27 (8.2)	25 (7.6)	24 (7.3)	22 (6.7)	21 (6.4)	20 (6.1)	19 (5.8)	18 (5.5)	17 (5.2)	16 (4.9)	16 (4.9)	15 (4.6)	15 (4.6)		
8	597 (182.0)	299 (91.1)	199 (60.7)	149 (45.4)	119 (36.3)	100 (30.5)	85 (26.0)	75 (22.9)	66 (20.1)	60 (18.3)	54 (16.5)	50 (15.2)	46 (14.0)	43 (13.1)	40 (12.2)	37 (11.3)	35 (10.7)	33 (10.1)	31 (9.4)	30 (9.1)	28 (8.5)	27 (8.2)	26 (7.9)	25 (7.6)	24 (7.3)	24 (7.3)		
6	952 (290.1)	476 (145.1)	317 (96.7)	238 (72.5)	190 (57.9)	159 (48.5)	136 (41.5)	119 (36.3)	106 (32.3)	95 (29.0)	87 (26.5)	79 (24.1)	73 (22.3)	68 (20.7)	63 (19.2)	60 (18.3)	56 (17.1)	53 (16.2)	50 (15.2)	48 (14.6)	45 (13.7)	43 (13.1)	41 (12.5)	40 (12.2)	38 (11.6)	38 (11.6)		

① Charts are based on SPT-3 wire and a maximum .63 voltage drop at the end of the run. Many applications allow a 2.5 voltage drop.